SECTION 3Report Attachments

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Attachment I – Coast Wide Monitoring Model

The knowledge and experience of active water quality monitoring groups in California is impressive. Many of the CMC groups and their volunteers have been active in monitoring local waters for many years and have developed robust procedures for the collection and analysis of samples, however some were new to water quality monitoring, and none had ever worked together at the scale of the proposed Coast Wide Snapshot Day. It was therefore, essential that a set of project wide standard protocols and quality assurance procedures were established and followed to ensure the stated goals were accomplished, procedures were comparable, and a coast wide set of comparable data was produced.

CMC Training

On March 10th and 11th 2003 the Coastal Watershed Council hosted a "Train-the-Trainers" workshop for the Coastal Monitoring Coordinators at the Southern California Marine Institute on Terminal Island, Long Beach, CA. Representatives from each of the eight CMC organizations were present, as well as members of the SWRCB Clean Water Team, California Coastal Commission, Central Coast RWQCB staff and other TAC members.

This workshop was the first time all of the participants met to discuss the program and the actions for which each participant would be responsible. Topics included: background & history of the Central Coast Snapshot Day event; media coverage and volunteer recruitment; equipment usage, calibration, and training requirements; site selection & mapping for the event; sample collection and monitoring protocols; quality assurance procedures before, during and after the event; data storage mechanisms; and reporting structure. A Coast Wide Snapshot Day Workbook was given to every participant.

The Workbook included supporting materials for implementing the monitoring event such as: the project specific Quality Assurance Project Plan and Monitoring Plan; the approved Snapshot Day Datasheet and instructions; the "Standard Operating Procedures" (SOPs) developed by the Clean Water Team for field measurements, sample documents of volunteer recruitment flyers and press releases and a draft (and later a final) manual for the Citizen Monitoring database interface created for this event.

Volunteer Training

The CMCs were then tasked with ensuring that all the watershed groups and volunteers in their coastal region understood, and could implement, the procedures outlined for this event. Training sessions were conducted by the CMCs in each region for volunteers participating in Snapshot 2003. These volunteer training workshops included hands on instruction on water quality testing and associated instrumentation, sample collection, safety, and data collection and management based on the concepts and materials from the CMC Workshop and Workbook. In addition to the training sessions, CMCs provided opportunities for calibration sessions associated with the project so that outside groups with equipment could perform calibration and standard comparisons on their own. The SWRCB Clean Water Team provided appropriate certified standards to the CMCs for these sessions.

Attachment II - Quality Assurance Report

The key role of the Coastal Monitoring Coordinators was to coordinate monitoring activities for their region. Those activities included calibration of field equipment, coordination of sample collection for laboratory analysis, holding and transport of samples and ensuring proper laboratory analysis. To meet the high objective set for this event, the CMCs were required to plan and implement a large number of logistically challenging and technically complex activities. All of those efforts however made it possible to complete this comprehensive Quality Assurance Report, which provides the reader or data user with the information necessary to fully understand the quality of the reported results. This brief report outlines those results and identifies both programmatic and analytical achievements and shortfalls.

Realizing the enormity of the task at hand; to coordinate volunteer groups throughout the coast in the collection of consistent data of known quality, and being that this was the first year that Snapshot Day was coordinated along the entire coast, many successes in implementing this program should be recognized.

The Coastal Monitoring Coordinators successfully:

- Implemented procedures to capture and preserve the linkage between each measurement result and the instrument or kit that was used to measure it
- Calibrated all of the Snapshot Day equipment provided for the event as well as many locally owned pieces of equipment, some of which had never been calibrated.
- Coordinated the laboratory analysis of samples from 366 stations along the coast.
- Orchestrated the laboratory analysis of a "known" nitrate standard in each region to allow for coast wide comparison of results.
- Ensured repetition of field measurements and collection of field duplicates and field blanks
- Distributed split samples among labs to enable inter-laboratory precision assessments
- Performed the numerous equipment and data tracking operations outlined in the QAPP to provide for this Quality Assurance Report.
- Achieved most of the Data Quality Objectives outlined in the Quality Assurance Project Plan and identified several areas for improvement.
- Provided water quality data that corroborated well with state impairment listings (303d) and identified several areas not listed which warrant further investigation.

It should be noted; while there was no laboratory budget, the CMC's collected and coordinated the analysis for samples collected at 50% of the stations on Snapshot Day.

The intent of the Quality Assurance Report is to provide the results for the various procedures conducted, as part of the coast wide event, to minimize and quantify the error in the reported results. All of the information required by the Quality Assurance Project Plan (QAPP) and Monitoring Plan are provided in this report, compiled for the entire coast. Information includes QA sample inventory (field duplicates, field blanks, etc.) and extent of compliance with QAPP requirements; the percent of laboratories meeting the lab Measurement Quality Objectives (MQOs); and the percent of monitoring teams which achieved the field MQOs.

The Snapshot Day Monitoring Plan and Quality Assurance Project Plan outlines what needs to be done to control and check the accuracy and the precision of field measurements. For evaluation of precision, repeated measurements were made for each instrument or kit used in the field. Repeated measurements were performed by 78% of Snapshot Day teams for their thermometers, by more than 80% of the teams for their conductivity probes, DO kits, etc., and by 100% of the teams for their pH measurement devices. Table QA-1, column "% of teams reporting precision" shows further details.

Using these pairs of repeated field measurement, the Relative Percent Difference (RPD) was calculated for each instrument and kit (see note on the bottom of Table QA-1 for the RPD calculation). The percent of field instruments and kits that met the MQO for precision ranged from 78% to 100%, depending on the tested parameter. The differences between repeated measurements are most likely due to a combination of equipment error and natural variability within the monitoring station, but when different people perform each one of the paired measurements, variability among operators increases the RPD as well. Regardless, most paired measurements corroborated well, suggesting that the teams were well trained and able to carry out both the QA procedures and the technical requirements of the equipment.

Table QA-1: Outcome of Field Measurement QA Procedures.

Field Sampling Quality Assurance Report

Parameter	# of Teams	Detection Limit	Range of Instrument Resolution	% of teams reporting precision	Precision MQO (RPD)(1)	% of instruments meeting Precision DQO	Average RPD of all instruments (2)
Oxygen	160	0 mg/l	0.1 to 2	94%	± 10.00%	± 91%	± 6.53%
Temp - Air	133	(-5) °c	0.1 to 2	78%	± 10.00%	± 96%	± 2.51%
рН	185	4.5 pH	0.1 to 1	109%	± 15.00%	± 100%	± 0.94%
Conductivity	144	0 µS	0.1 to 10	85%	± 10.00%	± 96%	± 5.05%
Transparancy	69	0 cm	0.1	92%	± 10.00%	± 86%	± 3.10%
Turbidity	88	5 JTU	0.5 to 5	92%	± 10.00%	± 78%	± 5.78%
Temp - H20	152	(-5) °c	0.1 to 1	89%	± 10.00%	± 100%	± 0.78%

Notes:

⁽¹⁾ Relative Percent Difference (RPD), a measure of precision, is calculated from two repeated measurements taken at the same place and the same time, as the difference between the two values times 100 divided by the average of the two values

⁽²⁾ Because precision is instrument-specific, the average precision of a program using many instruments is meaningless and cannot be used to report the actual precision of the results.

Accuracy was calculated for conductivity meters that were checked against a standard after the event. Each meter was calibrated prior to use for Snapshot Day (to minimize the error). Many of the meters were also 'post-calibrated' to check the drift from the calibrated state, i.e., is the difference between the reading after the event (i.e., before the next calibration) and the true value of the standard that was used for calibration. Percent accuracy is calculated from the drift (post-event reading minus the "true" value of the standard), times 100, divided by the value of the standard. The accuracy of all the post-calibrated meters ranged from 0% to 52%. Of all the meters (approx. 150), three were found to have drifted beyond an acceptable range (greater than 10% error). This error was reported to the owners and the data generated using those meters were flagged in the database as questionable.

The Snapshot Day Monitoring Plan and Quality Assurance Project Plan also outlines the Quality Assurance requirements for the number of QA samples and for laboratory MQOs (precision and accuracy of lab results). A tally of the inventories including the number of samples taken, laboratories participating and number of QA samples collected and analyzed are presented in Table QA-2.

Table QA-2. Number of samples, participating laboratories, and number of QA samples collected by parameter.

QA Sample Frequencies

Parameter	# of Samples	# laboratories	# Blanks	# Duplicate	% Duplicates	# Splits	% splits
NO3	318	18	8	27	150.00 %	9	75.0 %
PO4	307	16	4	24	150.00 %	7	62.5 %
E coli / Fecal	366	21	21	23	109.52 %	8	62.5 %
Total	356	21	22	25	119.05 %	8	62.5 %

Duplicate samples were collected for each parameter in excess of the number required by the QAPP (i.e.150%). In addition, 302 nitrate samples were taken along the coast and analyzed by 18 laboratories. Quality assurance samples taken for nitrate include 8 blanks, 27 duplicates, and 9 laboratory splits (where the same sample was analyzed by several labs). The Procedural Quality Assurance requirements for nutrients had specified that split samples be analyzed for all regions where more than one laboratory is used for nutrient analysis. Split samples were analyzed in 75% of regions for nitrates and 62.5% of regions for phosphates where multiple laboratories were used, not meeting the procedural objectives for this program. While no Data Quality Objective was identified for the results of the laboratory split procedure, all but one of the comparisons met the precision MQOs for nutrients (± 0.2ppm).

Because it was infeasible to have each field team collect a complete set of Quality Assurance samples, it is impossible to relate the error associated with the laboratory analysis to individual batches of results. The field duplicates collected by 5% of field teams provide general insight on the reproducibility of the sampling and analysis procedures. For bacteria, we must rely on the laboratories' in house quality assurance protocols to ensure acceptable accuracy, as providing bacteria 'standards' to all the labs was impossible. The number of laboratories that met the Measurement Quality Objectives (MQOs) as prescribed in the QAPP was calculated and appears in Table QA-3.

Samples were collected at approximately 50% of the stations along the coast. Approximately 80% of nutrient duplicates (used to estimate precision) and all of the nitrate standards distributed to the CMCs (samples with known nitrate concentrations used to estimate accuracy) met this ±0.2ppm objective. Detection limits for the various laboratories ranged from 0.05ppm to 0.5ppm nitrate as N.

Table QA-3 Measurement Quality Objectives for laboratory analysis.

Laboratory Quality Assurance Report

Parameter	# of laboratories	Detection Limit Range	Number of Samples	Completeness (% sampled)	Measurement Quality Objective	% Labs meeing MQO for Precision	% Labs meeing MQO for Accuracy (±0.2)
NO3	18	.505	318	49.84%	± 0.2 mg/l	80%	100%
PO4	16	102	307	49.31%	± 0.2 mg/l	90%	
E coli / fecal coliform	17	100-2	366	55.94%	± 50%	75%	
Total coliform	17	100-2	356	54.60%	± 50%	75%	

MQOs for bacteria analysis do not include accuracy (it is virtually impossible to have a standard with a known number of bacteria), and are much less stringent for precision due to the high variability associated with bacterial counts methods. An RPD of 50% or even more is acceptable because we need to discern differences of orders of magnitude, i.e., results become a concern when they are orders of magnitude above background levels (e.g., 35 vs. 310 *E. coli* MPN/100ml). Precision objectives for *E. coli* and total coliform were ± 50% (RPD), estimated using duplicate samples collected at 5% of stations. The percent of laboratory samples meeting the objective was lower for bacteria than for nutrients, with only 75% of the laboratories meeting the MQO for *E. coli* and total coliform. For several of the samples with duplicates, there was significant difference between the two results (±200%), suggesting further work by those laboratories or field collection teams is warranted to improve QA procedures and results. None of the blanks analyzed for bacteria had detectable levels of *E. coli* or total coliform, suggesting that contamination of samples was not a problem.

Of the 33 areas of concern along the coast, 25 included exceedences of water quality benchmarks for *E. coli*. Because the Snapshot Day Program did not meet the Quality Assurance Objective for *E. coli* throughout the coast, caution should be used when interpreting the data.

Program Quality Assurance shortfalls

All of the regions fulfilled the Quality Assurance requirements for the field parameters. However, no region met all of the requirements for QA samples (i.e. # of field duplicates and blanks required) or all the objectives for precision and accuracy. Split samples were only required when more than one laboratory was used to analyze nutrient samples. In regions where only one laboratory participated, inter-laboratory precision was not relevant.

Estimating the precision of some laboratory samples was impossible because the sample results were either below or above the detection range for that parameter. In other areas, no duplicates were analyzed. The most common reason for not meeting this requirement for analyzing duplicates was the desire to increase the number of stations monitored for bacteria and nutrients. Since most laboratory analysis was done at no cost, meeting the requirement to include 5-10% duplicates and splits was often difficult, and many CMCs chose to increase their number of samples analyzed rather than to include all of the QA samples. This suggests that if California is to continue to support coordinated citizen monitoring, and it is determined that all of the laboratory QA requirements are necessary; some funding of laboratory analysis would increase the success of the program.

Data users and others responsible for integrating Snapshot Day data into regional data repositories such as the Central Coast Ambient Monitoring Program Database, require the ability to associate individual measurement results with the precision and accuracy results associated with the specific piece of field equipment that was used to measure them. By including unique equipment identifiers in the Field Data Sheets and as a data field in the Snapshot Day database, we are able to provide precision and/or accuracy for the field data, giving the end user information on the extent of error associated with each result value. In addition to completing this Coast Wide Quality Assurance Report, the Coast Wide Snapshot Day team has provided each of the Coastal Monitoring Coordinators with a regional report of their QA results.

By implementing these rigorous Quality Assurance protocols, we hope to generate Citizen collected data that are of as high a quality as those collected by state agencies and municipalities. Only by achieving these objectives will decision makers be able to confidently use these data. The report demonstrates that through the teamwork of a Snapshot Day Technical Advisory Committee, Coast Wide Snapshot Day team, and the invaluable efforts of the CMCs, the program was able to provide data of known quality using comparable procedures to answer a coast wide question. While this Quality Assurance Report has identified several procedural and analytical shortcomings, the report also demonstrates that with only minor modifications, these data can continue to be of consistent and high quality.

Next Steps

Because we did assign individual equipment identification numbers to each piece of field equipment, we can now go back to the database and calculate the error for each result value. This was not a part of the scope of work for this project but is feasible and will increase the usefulness of the data for state data repositories. Between 10 and 20 percent of the field equipment did not meet the MQO for this program. We did screen the Areas of Concern station to ensure they met the requirements of the QAPP and flagged questionable results, but have not yet screened the entire data set (Attachment VII). This process would greatly improve the usefulness of the data. For future years of this program, we hope to automate this process and be able to provide an estimate of error with each measured value prior to data interpretation.

Attachment III – Data Collection, Storage and Compilation

Data collection, data reporting and retrieval for analysis were tasks that required a great deal of consideration when applied to the coast wide model. A single data sheet and a single database were adopted for the project to ensure consistency across all regions. Providing a uniform document to be used by all monitors in the field, and creating a comprehensive repository to store and use as reporting and data retrieval tool required a great deal of effort and thought by the Team and the TAC. Together the data sheet and database helped the Team produce a comprehensive set of comparable data from the entire coast, housed in a single location, another fundamental goal of the project.

Data sheet

While most active water quality monitoring groups already had a data sheet for collection of field data and laboratory information, it was evident that an event specific datasheet was needed to help ensure consistent reporting of the data across the state. The Coast Wide Snapshot Day Data Sheet was created using the Central Coast Snapshot Day data sheet, which was based on numerous regional and State Board examples, as a model. The Central Coast data sheet was modified to accommodate the nature of the coast wide event and to incorporate TAC and CMC comments (the Coast Wide Snapshot Day Data Sheet is included in Attachment VI).

The data sheet was designed to include adequate placeholders for all measurement or analysis results as well as fields pertinent for "metadata" information such as instrument identification codes, "Replicate" measurements, and time of measurement. Station identification information such as the station name, waterbody name, and more detailed information such as the state hydrologic unit code and GPS positioning information could all be documented on the data sheet. As well, a separate section was included for documenting all water samples collected by the team in the field, complete with a chain of custody signature line for relinquishing samples at the end of the day. Additional fields for noting team members, environmental conditions, flow, water clarity, and wildlife were also incorporated into the data sheet.

A comprehensive data sheet 'instruction form' was provided to the CMCs to include with every data sheet volunteers took into the field. This form acted like a glossary, providing an explanation of every field on the Coast Wide Snapshot Day Data Sheet.

Data Storage & Retrieval

The Coastal Watershed Council developed a "Citizen Monitoring Database" in Microsoft Access that could track and report on information collected during water quality monitoring in 2002. A customized "Snapshot Day" interface was developed to work with the Coastal Watershed Council's database for this event. This database was used to store, compile and report on information for Snapshot Day 2003.

As this database interface was created for the Snapshot Day 2003 event, it had limited development time and there were many problems worked out to accommodate such a complex set of relationship requirements.

A shell relational database structure and the Snapshot Day interface was distributed to each CMC organization prior to the event for the purpose of collecting all data associated with this event into a single repository.

Information supporting each measurement taken by volunteers for Snapshot Day was stored in the database. The structure including separate related tables that held information on organizations, instruments and instrument vendors, stations, field sample results, field environmental information, laboratory results, as well as many hidden tables that supported data entry. Furthermore, all the quality assurance results required for the project such as an inventory of certified Standards used for calibration, and the associated calibration and accuracy check results were all logged in associated tables.

A special data entry form was created within the Snapshot Day interface that mirrored the Coast Wide Snapshot Day Data Sheet. This complex and comprehensive form populated numerous tables within the database with required information to connect each individual "result" of a field measurements or test, as well as laboratory analysis results, to the station, team, and individual instrument associated with it. As well, the relational properties of the database allowed the connection of the calibration records and standards associated with each instrument to each result associated with that instrument.

The database improved the data entry process by automating many of the data entry actions with drop down menus for selection of units, or instruments drawn directly from the instrument inventory, and enforced use of standard reporting terminology.

The data entry form for the field data sheet also *demanded* a level of 'integrity' that could not have otherwise been achieved. The properties of the database allowed us to incorporate numerous "referential checks" before each completed form was submitted and recorded in the tables. These checks prevented incomplete records from being recorded. If, for example, there was no instrument ID associated with a measurement result, the data base would not recognize it.

We were also able to compile the data from the eight regional efforts into a single coast wide relational database and then build and export data using standard queries. As well, we could report on specialized sub-sets of information to create QA reports for CMCs to verify their data entry, or to evaluate the data results, provide quality assurance checks, and integrate the data into a GIS system for mapping of the results. A complete database description is available upon request.

Attachment IV -- Volunteer Participants List

CMC Region	First Name	Last Name	CMC Region	First Name	Last Name	CMC Region	First Name	Last Name
RCAA	Dian	Bacigalup	MBNMS	Dee	Hall	FOE	Morgan	Gustas
RCAA	Diane	Beck	SRCD	Judith	Corning	FOE	Ray	Gustas
RCAA	Colin	Belisle	SRCD	Bryan	Eckert	FOE	Robert	Gustas
RCAA	Heather	Brown	SRCD	Fred	Euphrat	FOE	Ivette	Guzman
RCAA	Haley	Brown	SRCD	Ken	Fox	FOE	Bob	Hale
RCAA	Taylor	Brown	SRCD	Lisa	Gonzales	FOE	Jill	Halloran
RCAA	Jerry	Brown	SRCD	Jack	Gregg	FOE	Arthur	Ham
RCAA	Robert	Brown	SRCD	Vickie	Gregg	FOE	Jeff	Hargreaves
RCAA	Drew	Clendenen	SRCD	Dominic	Gregorio	FOE	Peter	Hargreaves
RCAA	Ron	Cole	SRCD	June	Gregorio	FOE	Toby	Hargreaves
RCAA	Sonia	Cuellar	SRCD	Brian	Hines	FOE	George	Henke
RCAA	Max	Cuellar	SRCD	Meagan	Isadore	FOE	Erica	Herron
RCAA	Clark	Fenton	SRCD	Dave	Jordan	FOE	Jessica	Higgins
RCAA	Dave	Feral	SRCD	Neysa	King	FOE	David	Houston
RCAA	Ken	Fetcho	SRCD	Darlene	LaMont	FOE	Christin	Jolicoeur
RCAA	Debbie	Filomeo	SRCD	Rob	Lichty	FOE	Revital	Katznelson
RCAA	Melanie	Filomeo	SRCD	Larry	Lynch	FOE	Jane	Kelly
RCAA	Edy	Filomeo	SRCD	Patty	Madigan	FOE	Thomas	Kelly
RCAA	Michelle	Flockhart	SRCD	Kate	McClain	FOE	Norm	Kidder
RCAA	Morguine	Flynn-Sousa	SRCD	Don	McEnhill	FOE	Nick	Kish
RCAA	Dello	Freitas	SRCD	Michael	Mery	FOE	Jonathan	Koehler
RCAA	Ron	Guenther	SRCD	Priscilla	Meyers	FOE	Mike	Koslosky
RCAA	Lieben	Guenther	SRCD	Kathleen	Morgan	FOE	Laura	Kretschmar
RCAA	Pam	Halstead	SRCD	Gary	Neargarder	FOE	Nathan	Kruse
RCAA	Margaret	Herbelin	SRCD	Bob	Nelson	FOE	Nancy	Kubik
RCAA	Julia	Kane	SRCD	Duane	Nibblett	FOE	Mark	Lane,
RCAA	Anna	Kelly	SRCD	Sara	Penn	FOE	Mondy	Lariz
RCAA	Scott	Kelly	SRCD	Dan	Penn	FOE	Marilyn	Latta
RCAA	Heather	Lazard	SRCD	Richard	Plant	FOE	Sue	Lattanzio
RCAA	Ray	Lingel	SRCD	Tracy	Rexor	FOE	Ben	Lerch
RCAA	Melvin	McKinney	SRCD	Michael	Rochette	FOE	German	Lopez
RCAA	Vanessa	Metz	SRCD	Patricia	Rochette	FOE	Mukul	Malhotra
RCAA	Chandra	Miller	SRCD	Dave	Rogers	FOE	Keith	Marsh
RCAA	Heather	Miller	SRCD	Ron	Rolleri	FOE	Sue	Mathews
RCAA	C	Moss	SRCD	Jim	Salomone	FOE	Jim	McCarthy
RCAA	Nicole	Murano	SRCD	Sarah	Shaeffer	FOE	Alan	McGee,
RCAA	Jesse	Palmer	SRCD	Tom	Yarish	FOE	Steve	Midas
RCAA	Trevor	Parker	FOE	Lynn	Axelrod	FOE	Diane	Minasian
RCAA	Jennifer	Peters	FOE	Barbara	Banfield	FOE	Jose	Morales
RCAA	Maggie	Ramsey	FOE	Elena	Belsky	FOE	Peter	Neal
RCAA	Gary	Rees	FOE	Shauna	Benshoff	FOE	Bob	Niedeve
RCAA	Patricia	Rommel	FOE	Jane	Bourne	FOE	Christal	Niedever
RCAA	Jay	Rommel	FOE	Diane	Braumbaug	FOE	Katie	Noonan
RCAA	Sara	Rommel	FOE	Rod	Brown	FOE	Halima	O'Neil,
RCAA	Alexander	Rommel	FOE	Rod	Brown	FOE	Elizabeth	O'Shea
RCAA	Felicia	Ross	FOE	Bianca	Cabrera	FOE	Carli	Paine
RCAA	David	Salomon	FOE	Wes	Callow	FOE	Camille	Peterson
RCAA	Cheri	Sanville	FOE	Frank	Carroll	FOE	Jennifer	Peterson
RCAA	Lori	Schmitz	FOE	Ross	Clark	FOE	Bob	Pike
RCAA	Chad	Sefck	FOE	Steve	Cochrane	FOE	Gabrielle	Quillman
RCAA	Valerie	Spiers	FOE	Katie	Colbert	FOE	Shirley	Reilly
RCAA	Roanne	Withers	FOE	Matt	Cover,	FOE	Pam	Romo
RCAA	Drew	York	FOE	Carole	d'Alessio	FOE	Jesse	Roseman
SRCD	Parshuram	Acharya	FOE	Bryan	DeLeon	FOE	Yao	Saechao
SRCD	Janet	Attard	FOE	Sandy	Derby	FOE	Liew	Saephan
SRCD	Tom	Baty	FOE	Dolores	Duenas	FOE	Allen	Schneibe
SRCD	Camelia	Bianchi	FOE	Don	Eliason	FOE	Mitch	Schweickert
SRCD	Tom	Brown	FOE	Erica	Eliason	FOE	Anne	Senter
SRCD	Phyllis	Burt	FOE	Spencer	Everson	FOE	Jennie	Sexton
SRCD	Denise	Cadman	FOE	Terri	Fagundes	FOE	Jeff	Shore
SRCD	Penny	Cantor	FOE	JO	Frisch	FOE	Igor	Skaredoff
SRCD	Sierra	Cantor	FOE	Carolyn	Gaye	FOE	Shirley	Skaredoff
SRCD	Terence	Carroll	FOE	Tiffany	Gee	FOE	Ruby	Stein
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CMC Region FOE		Last Name	CMC Region			CMC Region		Last Name
	Brian	Tang	MBNMS	Kara	Hagedom	MBNMS	Roxanne	Rothafel Sanchez
FOE	Cindy	Taylor	MBNMS	Susan	Harden	MBNMS	Sara	
OE	Martha	Ture,	MBNMS	Jon	Harman	MBNMS	Mary	Scannel
OE	Santiago	Villalba	MBNMS	Rick	Hawley	MBNMS	Annie	Schmidt
70E	Amy	Wagner	MBNMS	Dawn	Hayes	MBNMS	Barbara	Schwimmer
FOE	Richard	Wheeler	MBNMS	Valentine	Hemingway	MBNMS	Gary	Shallcross
FOE	Marge	Wood	MBNMS	Devin	Henderson	MBNMS	Sylvia	Shih
MBNMS	Lisa	Emanuelson	MBNMS	Nathan	Hendricks	MBNMS	Robin	Springer
MBNMS	Mathers	Rowley	MBNMS	Anne	Hess	MBNMS	Sharon	Squire
MBNMS	Gary	Allen	MBNMS	Janet	Hodder	MBNMS	Jen	Stern
MBNMS	Zack	Alter	MBNMS	Brian	Hoover	MBNMS	Tammy	Straw
MBNMS	Jon	Anderson	MBNMS	Тега	Hoover	MBNMS	Paul	Swinderman
MBNMS	Bill	Arkfeld	MBNMS	Don	Hoover	MBNMS	Barry	Taruks
MBNMS	Ivy	Arkfeld	MBNMS	Alex	Hyden	MBNMS	Ken	Tetzel
MBNMS	William	Baier	MBNMS	Katy	Imel	MBNMS	Rebecca	Thistlethwaite
MBNMS	Sara	Bauer	MBNMS	Gareth	Jackson	MBNMS	Chris	Thompson
MBNMS	Chris	Berry	MBNMS	Jeannine	Jacobs	MBNMS	Breonna	Tiffany
MBNMS	Alan	Bilinski	MBNMS	Eduardo	Jalles	MBNMS	Steve	Todd
MBNMS	Clari	Binder	MBNMS	Carolyn	Johnson	MBNMS	Raechel	Toring
MBNMS	Tim	Bolle	MBNMS	Matt	Johnston	MBNMS	Joseph	Torres
MBNMS	Pat	Bouldin	MBNMS	Gabriel	Jost	MBNMS	Sharon	Towe
MBNMS	Ben	Bouldin	MBNMS	Gregg	Kerlin	MBNMS	Oren	Trower
MBNMS	Erica	Burton	MBNMS	Mike	King	MBNMS	Charles	Turk
MBNMS	Christela	Castro	MBNMS	Ann	Kitajima	MBNMS	Bonnie	Van Hise
MBNMS	Goerge	Cattermole	MBNMS	Chuck	Kozak	MBNMS	Melisa	Walker
MBNMS	Danny	Ceja	MBNMS	Robin	Lee	MBNMS	Zach	Washburn
MBNMS	Ross	Clark	MBNMS	Dennis	Long	MBNMS	Jason	Watts
MBNMS	Chris	Coburn	MBNMS	Benjamin	Ludin	MBNMS	Elliot	Weston
MBNMS		Cooper	MBNMS	David	Ludin	MBNMS	Richard	Woodbury
MBNMS	Carey	Cortez		Jim	Mackenzie	MBNMS	Tiffany	Wothington
	Ricky		MBNMS	-	-		-	
MBNMS	R.E.	Crompton	MBNMS	Marabeth	Madsen	MBNMS	George	Wright
MBNMS	Amy	Cross	MBNMS	Rohanna	Mayer	MBNMS	Warren	Yogi
MBNMS	Anna	Cummins	MBNMS	Charles	McClain	MBNMS	Roger	Zachary
MBNMS	Brad	Damitz	MBNMS	Huff	McGonigal	MBNMS	Natalie	Zayas
MBNMS	Ton	Deetz	MBNMS	Colleen	McGonigal	SBCK	Mary	Adams
MBNMS	Lua	Del Campo	MBNMS	Teresa	Middlebrook	SBCK	Simon	Allen
MBNMS	Marty	Demare	MBNMS	Sadie	Miles	SBCK	Jessie	Altstatt
MBNMS	David	Dilworth	MBNMS	Marcia	Minniham	SBCK	Darcy	Aston
MBNMS	Brenda	Donald	MBNMS	Bette	Mittleman	SBCK	Jessica	Benson
MBNMS	Sara	Dowe	MBNMS	Alexandra	Moore	SBCK	Carol	Blanchette
MBNMS	Ken	Ekelund	MBNMS	Adriana	Morales	SBCK	Tom	Boyles
MBNMS	Evonne	Elisondo	MBNMS	Tony	Morales	SBCK	Luc	Classens
MBNMS	Ben	Fasbinder	MBNMS	Jason	Nachamkin	SBCK	Jenny	Coyle
MBNMS	Patricia	Fernandez	MBNMS	Van	Nguyen	SBCK	Sam	Cummings
MBNMS	Dave	Fichtner	MBNMS	David	Norris	SBCK	Tracy	Duffey
MBNMS	David	Fichtner	MBNMS	Becky	Ohsiek	SBCK	Laura	Francis
MBNMS	Jean	Fife	MBNMS	Amanda	Ohsiek	SBCK	Steve	Francis
MBNMS	John	Fischer	MBNMS	Gail	Olson	SBCK	Jorden	Francis
MBNMS	Renee	Flower	MBNMS	Kelly	Palacios	SBCK	Leigh Ann	Grabowsky
MBNMS	James	Foster	MBNMS	Daniel	Palacios	SBCK	Andrea	Harvey
MBNMS	Patrice	Friedmann	MBNMS	Jeff	Palmeter	SBCK	Anita	Harvey
MBNMS	Denyse	Frischmuth	MBNMS	Miguel	Pantoja	SBCK	Paul	Jenkin
MBNMS	Robert	Frischmuth	MBNMS	Neil	Pantoja	SBCK	Claire	Johnson
		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		-			Bill	
MBNMS	Brian	Fulfrost	MBNMS	Stephanie	Parker	SBCK	- Control Control	Langford
MBNMS	DJ	Funk	MBNMS	Jim	Patterson	SBCK	Al Dirical	Leydecker
MBNMS	Leah	Funk	MBNMS	Judd	Perry	SBCK	Brice	Loose
MBNMS	Josh	Gardiner	MBNMS	Krissy	Rathburn	SBCK	Lalanya	Maestas
MBNMS	Annie	Gillespie	MBNMS	Emily	Reilly	SBCK	Rick	Margolin
MBNMS	Suzanne	Gilmore	MBNMS	Pat	Renshaw	SBCK	Christina	Michael
	16.4	Gilmore	MBNMS	Joel	Rintoul	SBCK	Curt	Montague
MBNMS	Mari	Gilliote	IVIDITIES	17.77	-	_		
	Marı Lisandro	Gonzalez	MBNMS	Nat	Rojanasathira	SBCK	Невепе	Muller-Landeau

CMC Region	First Name	Last Name	CMC Region	First Name	Last Name	CMC Region	First Name	Last Name
SBCK	Vicki	Nabholtz	SMBK	Ioannice	Lee	SDBK	Badri	Badriyha
SBCK	Terri	Nichols	SMBK	Quinnie	Lee	SDBK	Matt	Barden
SBCK	Thomas	Oretsky	SMBK	Ricky	Lee	SDBK	Christopher	Bartik
SBCK	Richard	O'Steen	SMBK	Ning	Liang	SDBK	Julio Cesar	Beltran
SBCK	Lindsay	Parrish	SMBK	David	Lloyd	SDBK	Jennifer	Block
SBCK	Gary	Perlmutter	SMBK	Donna Lee	Lubansky	SDBK	Clay	Bolt
SBCK	Monique	Prieto	SMBK	Greg	Lyon	SDBK	James	Bolton
SBCK	Michael	Robertson	SMBK	Shokafe	Marashi	SDBK	Paulina	Bueno Gutierrez
SBCK	Tim	Robinson	SMBK	Caryn	Marcus	SDBK	Aida	Bullen
SBCK	Roseanna	Rodeay	SMBK	Meredith	McCarthy	SDBK	Eric	Burres
SBCK	Danny	Rodeay	SMBK	Gerry	McGowen	SDBK	Lilian	Busse
SBCK	Marlene	Sassaman	SMBK	Prudence	Michael	SDBK	Gabriela	Calzado
SBCK	Wendy	Stanford	SMBK	Anant	Mokasi	SDBK	Sergio Octavio	Cardernas Flores
SBCK	Bill		SMBK		Newman	SDBK	Enrique	Carrillo
	-	Stratton		Jenny		1	1	
SBCK	Damon	Wing	SMBK	Shannon	Panknatz	SDBK	Laura	Carrillo
SBCK	Kim & Vida	Yasuda	SMBK	Celina	Perez	SDBK	Benjamin	Casillas
SBCK	Dale	Zurawski	SMBK	Bill Lee	Phipps	SDBK	Desiree	Castillo
SMBK	Nancy	Alvarez	SMBK	Jeanne	Phipps	SDBK	Desiree	Castillo Ruvalcab
SMBK	Ginachi	Amah	SMBK	David	Rasmussen	SDBK	Claudia	Cazares
SMBK	Cesar	Arzadon	SMBK	Jason	Refuerzo	SDBK	Bernice	Chan
SMBK	Melinda	Becker	SMBK	Bijan	Sadeghi	SDBK	Alejandra	Chang
SMBK	Anita	Bhatt	SMBK	Brigid	Saukaitis	SDBK	Lizbeth	Chavez Jimenez
SMBK	Jeff	Brandt	SMBK	Larry	Sepulveda	SDBK	Diane	Chen
SMBK	Sheila	Brice	SMBK	Kathleen	Snow	SDBK	David	Christensen
SMBK	Lisa	Carlson	SMBK	Ellen	Stern	SDBK	Manuel	Colon
SMBK	Curtis	Cash	SMBK	Ted	Stoker	SDBK	Michelle	Cordrey
SMBK	Frank	Chang	SMBK	Heal the Bay	Stream Team	SDBK	Korina O.	Cortes Uribe
SMBK	Linda	Chilton	SMBK	Nicolas	Tourneur	SDBK	Yomara	Davila Rodriguez
SMBK	Chu	Ching Lin	SMBK	Lynn	Tytla	SDBK	Alejandro	Del Aguila
SMBK	Kathy	Chung	SMBK	Alan	Walti	SDBK	Carlos Alberto	Del Aguila Garcia
SMBK	Rosi	Dagit	SMBK	Thea	Wang	SDBK	Ivan Alejandro	Del Aguila Garcia
	-			-	The state of the s	-		
SMBK	Ann	Dalkey	SMBK	Pat	Williams	SDBK	Victor David	Del Aguila Garcia
SMBK	Tim	DeMoss	SMBK	Maria	Wilson	SDBK	Deborah	Dobson
SMBK	Dario	Diehl	SMBK	Teresa	Young	SDBK	Jordan	Finkelstein
SMBK	John	Dorsey	SMBK	Ann	Zellers	SDBK	Shara	Fisler
SMBK	Michael	Drennan	OCCK	John	Bladow	SDBK	Ellery	Foster
SMBK	Voy	Eap	OCCK	Jamie	Burwell	SDBK	Manuel	Franco
SMBK	Craig	Edelman	OCCK	Martin	Carreon	SDBK	Veronica	Gallaga Beltran
SMBK	Sean	Eggers	OCCK	Nikki	Carreon	SDBK	Suelem Patricia	Garcia Arias
SMBK	Gen	Espineda	OCCK	Cortney	Carreon	SDBK	Carla	Garcia Zendejas
SMBK	Christian	Fenton	OCCK	Dan	Carusoe	SDBK	Dave	Gibson
SMBK	Kerry	Flaherty	OCCK	Diane	Comfort	SDBK	Ivan	Golakoff
SMBK	Steve	Fleischli	OCCK	Marius	Cucurny	SDBK	Yarentei	Gomez Campos
SMBK	Tom	Ford	OCCK	Michael	Davis	SDBK	Sara	Grice
SMBK	Karl M.	Foss	OCCK	Scott	Gallegos	SDBK	Saul	Guzman
SMBK	Abby	Fox	OCCK	Claire	Grozinger	SDBK	Mike	Hardy
SMBK	Jeff	Gando	OCCK	Deanna	Harkintz	SDBK		Hernandez Estrad
SMBK	David	Garrett	OCCK	Connie Haw		SDBK	Edna	Higuera
SMBK	Heather	George	OCCK	Ray	Hiemstra	SDBK	Liz	Hinkle
SMBK						SDBK		
	Suzie	Given	OCCK	Bob Hogan	Hogan	-	Jose Cruz	Holguin Ruiz
SMBK	Pamela	Green	OCCK	Kim Johnson		SDBK	Nerehida Adria	
SMBK	Ed	Hendricks	OCCK	Vic	Leipzig	SDBK	Norma Alejandi	
SMBK	Kay George	Herzberg	OCCK	James	Medlen	SDBK	Manuel	Huesca
SMBK	Scott	Higa	OCCK	Frank	Perez	SDBK	Jill	Hutzley
SMBK	Emily	Но	OCCK	Nicole Riley	Riley	SDBK	Diana Isabel	Icedo Gomez
SMBK	Jenny	Jay	OCCK	Don	Schulz	SDBK	Monica	Jauregui
SMBK	Hwa	Jin Kim	OCCK	Cheryl Searc	Searoy	SDBK	Oscar	Jimenez
SMBK	Emiko	Kobayashi	OCCK	Devin	Tate	SDBK	Dustin	Johnston
SMBK	Kathleen	Kozawa	OCCK	Helena	Tran	SDBK	Jennifer	Justis
SMBK	Kristy	Kull	SDBK	Carolina	Acuna Armenta	SDBK	Sandor	Kaupp
SMBK	Sharon	Landau	SDBK	Rodolfo	Anguiano	SDBK	Isabelle	Kaupp
DIVIDIC		100700000000000000000000000000000000000					Travis	TO SECURITION OF THE PARTY OF T
SMBK	Gwen	Lattin	SDBK	Raul	Arias	SDBK		Kemnitz

CMC Region		Last Name	CMC Region		Last Name		+
SDBK	Justin	Kirrundoerfer	SDBK	Lorena	Warner-Lara		4
SDBK	Chattral	Koether	SDBK	Christina	Wedell		1
SDBK	Larry	Kope	SDBK	Gretchen	Witti		1
SDBK	Bill	Lawrence	SDBK	Lauren	Yamane		1
SDBK	David	Lee	SDBK	Manuel Elias	Zamora Rodriguez		
SDBK	Diana Isabel	Leedo Gomez	SDBK	Ingridh	Zarate		
SDBK	Alejandro	Leyva	SDBK	Julio Cesar	Zuart		
SDBK	Hua	Liu					
SDBK	Omar	Lizarraga					
SDBK	Barbara	Lloyd					
SDBK	Laura Irma	Lopez Calderon					
SDBK	David	Lopez Sandoval					
SDBK	Llilian	Luong					Ť
SDBK	Cynthia	Mallett					Ť
SDBK	Ivan	Manriquez					Ť
SDBK	Alma Lorenia	Marquez	1				+
SDBK	Victor	Martha					t
SDBK	Francisco	Martinez Gonzalez					t
SDBK	Laura	Martinez Rios	1				+
SDBK	Michelle	Mata Mata		_			+
			+	-			+
SDBK	Richard	Mathews	+	-			+
SDBK	Lisandro	Maya Ramos	-	_			+
SDBK	Bernabe Diego	Melendez Marquez					+
SDBK	Hakan	Mikado					4
SDBK	Jamie	Miller					4
SDBK	Margarita	Mogollon					4
SDBK	Ian	Moores					1
SDBK	Martin	Moreno					
SDBK	Marissa	Nebenzahl					
SDBK	Juliette	Nonale					
SDBK	Julie	Noriega					
SDBK	Paola	Noyola					
SDBK	Ciarili	O'brien					
SDBK	Larry	O'brien					
SDBK	Wilfredo	Okendo Rivera					
SDBK	Gustavo Arturo	Olvera Balderas					T
SDBK	Noopur	Pathak					T
SDBK	Alejandra	Ponce					T
SDBK	Yunuen	Ramirez					Ť
SDBK	Moria	Reagan	1				Ť
SDBK	Bruce	Reznik					t
SDBK	Alma Delia	Rodriguez Garza					t
SDBK	Angelica	Romero Duran					t
SDBK	Alfonso	Romo	+	-			+
SDBK	Martha	Rosales Aguilar	1				+
			-	-			+
SDBK	Dariusz	Rowblewski	+	-			+
SDBK	Marionne	Rubio	+	1			+
SDBK	Gabriel	Ruiz	-	-			1
SDBK	Rick K.	Ryan	-	-			+
SDBK	Lisette	Salgado Patino	-				-
SDBK	Oscar	Sanchez	1				1
SDBK	Juan Carlos	Sanchez Ramirez					1
SDBK	Hiram	Sarabia					
SDBK	Hiroko	Shimasaki					
SDBK	Ana Marcela	Sosa					
SDBK	Paula	Stigler					
SDBK	Liz	Studebaker					
SDBK	Brandon	Swope					
SDBK	Constance	Szczublewski					
SDBK	Hilda	Uribe	1				İ
SDBK	Jose	Valadez	1				1
			1				+
SDBK	Alejandra	Vazquez					

Attachment V – Participating Agencies, Organizations & Donor Businesses

Listed by Coastal Monitoring Coordinator

RCAA—

AmeriCorps Watershed Stewards Project

California Coastal Commission

Campfire USA's W.A.T.E.R. Program

Central Coast Regional Water Quality Control Board

City of Crescent City

Coastal Watershed Council

Crescent City Waste Water Treatment Plant

Fortuna Creeks Project

Friends of the Noyo River Watershed

Gateway Education

Grant Elementary School

Humboldt State University Wastewater Utilization Lab

Humboldt Bay Watershed Advisory Committee

Mad River Watershed Group

Mattole Salmon Group

Mattole Restoration Council

McKinleyville Creeks

Mendocino County Rural Institute

Monterey Bay Sanctuary Foundation

North Coast Environmental Center

North Coast Laboratories

Salmon Forever

Streamline Planning Consultants

United States Environmental Protection Agency

Yurok Tribe Environmental Program

Kokatat

Los Bagels

Muddy Waters Coffee Company

North Coast Cooperative

North Coast Laboratories

For the Sake of the Salmon

SRCD-

Atascadero/Green Valley Watershed Council

City of Santa Rosa Creek Stewardship Program

City of Santa Rosa, Public Works Department

City of Santa Rosa, Utilities Department, Laguna

Wastewater Treatment Plant

Community Clean Water Institute

Farallones Marine Sanctuary Association

For Sake of Salmon

Friends of the Russian River

Gualala River Watershed Council

Marin County Resource Conservation District

Marin Municipal Water District

Mendocino County Resource Conservation District

Mendocino County Water Agency

Navarro Watershed Working Group

Point Reyes National Seashore

Russian Riverkeeper Sebastopol ACE Hardware Sonoma County Water Agency SPAWN Sonoma State University Stewards of Slavianka Tomales Bay Watershed Council

FOE-

Acterra

Butters Land Trust

Children's Discovery Museum

Creek Keepers

East Bay Regional Park District

Fly Casters Inc.

Friends of Alhambra Creek

Friends of Corte Madera Creek

Friends of Five Creeks

Friends of Novato Creek

Friends of Pinole Creek

Friends of San Leandro Creek

Friends of Sausal Creek

Friends of Temescal Creek

Friends of Walnut Creek

Lighthouse Community Charter School

Los Medanos College

Napa County Resource Conservation District

Oakland High School—Environmental Science Academy

Partners for the Watershed

Save the Bay

SPAWNERS

State Water Regional Control Board--Region 3

Sunol-Ohlone Regional Wilderness Interpretive Center

U.S. EPA region 9

Washington High School

MBNMS—

Arana Gulch Watershed Alliance

Beckman's Bakery

Big Creek Reserve

California Coastal Commission

Central Coast Regional Water Quality Control Board

City of Monterey

City of Pacifica

City of Pacific Grove

City of Santa Cruz

City of Watsonville

Coastal Watershed Council

Creekside Environmental Laboratory

Crystal Gevser Water

Crystal Springs Water

DeAnza College

Earth Systems Science and Policy Program (CSUMB)

Elkhorn Slough National Estuarine Research Reserve

Garrapata Watershed Council

Greenspace

Monterey Bay Analytical

Monterey Bay National Marine Sanctuary

Monterey Bay Sanctuary Foundation

Monterey County Community Links

Monterey Regional Water Pollution Control Agency

New Leaf Market

Noah's Bagels

Nob Hill

Odwalla

Pacific Cookie Company

Peet's Coffee

San Lorenzo Urban Restoration Project

San Lorenzo Valley High School

San Luis Obispo County Environmental Health

San Mateo County Environmental Health

Santa Cruz County Environmental Health

Santa Cruz Safeway

Scott Creek Watershed Council

Starbuck's Coffee

State Water Resources Control Board Clean Water Team

Surfrider Foundation

The Ocean Conservancy

Trader Joe's

United States Environmental Protection Agency

Upper Salinas Las Tablas RCD

Upper Salinas Watershed Coalition

Watershed Institute, CSUMB

SBCK-

California Coastal Commission

Central Coast Regional Water Quality Control Board

Channel Islands National Marine Sanctuary

City of Santa Barbara

Community Environmental Council

County of Santa Barbara

Santa Barbara Channelkeeper

State Water Resources Control Board Clean Water Team

Surfrider Foundation-Isla Vista Chapter

Surfrider Foundation- Ventura Chapter

United States Environmental Protection Agency

University of California at Santa Barbara

Ventura Coastkeeper

Anna's Bakery

Debbie's Delights

Jack's Famous Bagels

Peet's Coffee

Trader Joes

SMBK-

Southern California Marine Institute
Loyola Marymount University,
University of California, Los Angeles
Friends of the Los Angeles River,
Cabrillo Marine Aquarium,
Heal the Bay
Surfrider Long Beach,
Algalita Marine Research
City of Los Angeles
Los Angeles County
Los Angeles Regional Water Quality Control Board
Resource Conservation District of the Santa Monica Mountains
Noah's Bagels
Wild Oats Market

OCCK-

Bolsa Chica Conservancy
Del Mar Laboratory
D.I.V.E.R.S.
Geomatrix Consultants Inc.
Golden West College
Orange County Coastkeeper
Orange County Sanitation District
Surfrider, Long Beach-Huntington

SDBK-

Cetys Universidad City of San Diego Stormwater PPP County of San Diego Project Clean Water County of San Diego Water Authority Henry's Marketplace Instituto Mexico Mission Resource Conservation District Preparatoria Federal Lazaro Cardenas San Diego Regional Water Quality Control Board San Diego Stream Team Sea to Sea Trail Foundation SDSU Environmental Engineering Program Sister Schools of San Diego **SWRCB Clean Water Team** Surfrider Foundation **UABC UCSD Reserve System** UCSD Scripps Institution of Oceanography UCSD Superfund Basic Research Program **UCSD CalPIRG** Universidad Iberoamericana (UIA)

Universidad y Preparatoria Xochicalco

USD Marine and Environmental Science Program

Attachment VI - Field Data Sheet

Coast Wide	Snapshot I	ay 2003		DOC_ID#	-		
			GPS Coordinates	Datum:			
[CMC LOGO HERE]				w:			
				NI.			
				N:			
Field Data Sheet				GPS_ID:			
Please Use one sheet for each Stat	ion. Use back for comm	ents.		Hydrolog	jic Unit ID:		
Watershed:				Statio	n (Site) ID:		
					(-11-)		
Watershed Group Name:				Waterbod			
Site map is attached to this data shee	t please update if nece	sarv		Waterbody Typ			
Flow discharge (circle one):	n, picaco apaato ii noco	<u> </u>	Volunteer Monitors				
	(< 1 quart/sec);		TEAM LEADER (list full nam	e & phone #):			
Moderate (< 5 gal/sec); High (>	5 gal/sec)				2)		
Weather Conditions (circle): Has it rained within the last 24 hours?	Y / N		Phone: () -		3)		
SKY	PRECIPITATION	WIND	Filone. ()				
no clouds partly cloudy	none foggy	none breezy	4)		5)		
heavy clouds	misty	windy					
overcast	rain	blustery	(list additional names on ba	ck)			
	Times	f Field Messurement	to:				
Metrukeur		f Field Measurement		Henze			
INSTRUMENT ID	PARAMETER	RESULT	Replicate		ircle appropria	te unit)	
	Air Temperature			F or C	Water Clarit	y (circle one):	
	1120 T-			F or C	clear	cloudy	murky
	H2O Temperature				(water itself,		-
	рН			pH units			
	μп						
	Dissolved Oxygen			mg/l (ppm)			
	Conductivity			μS mS		evice used?	Y N
				JTU NTU	If so, what k	and?	
	Turbidity			JIO MIO	Kemmerer bo	ottle	
	-			cm			
	Transparency						
				UNIT			
				UNIT	_		
				UNIT	_		
Notes and Observations : (include any equipment comments/problems of	r observations such as wate	color, trash composition, etc)		Fish or Wildlife 0 (describe number se		and behavior)	
Sample Collection:							
Sample ID:		Time Collected:	Collected by:	Туре:	Container typ	e :	
				Bacteria			
				Nutrient			
Sample Custody:							
Relinquished By:			Received By:				
Date /Time:			Date /Time:				
	Chata Milatan Danasana	Control Board, the LIS Environm	pental Protection Agency, the Califor	nia			
This event sponsored by the California	State water Resources	Control Doald, the Co Environm	ichtai i fotoction / sgeney, the Camor	lia			
This event sponsored by the California Coastal Commission, the Monterey B	ay Sanctuary Foundation	, and the Coastal Watershed Co	uncil among many others.	lia			

Attachment VII – Coast Wide Result Table

Result Data Table with All values in unacceptable ranges highlighted.

СМС	StaliunID	Time of Field Measurements	Flow	AirTemp (Deg C)	Conductivity (uS)	Dissolved Oxygen (ppm)	рН	Tranparency (cm)	Turbidity (JTU)	Salinity (ppt)	WaterTemp (Deg C)	E. Coli (MPN/100 ml)	Fecal coliform (CFU/100 ml)	Enterrococcus (MPN/100ml)	Total coliform (MPN/100ml)	Nitrate-N (mg/L)	Ortho- phosphate-P (mg/L)
RCAA RCAA	107RED-10 110HH	13:30 12:00	moderate (<5 gal/sec) high (>5 gal/s/sec)	15.5	80 130	8.0	7.0 6.5	120.0	7.0		15.5 10.5		2 50		34 1600	0.10	0.01
RCAA	110FRS-10	14:15	Not recorded	19.4	130	8.3	7.5	47.0	7.0		15.0		50		1600	0.10	0.03
RCAA RCAA	108PAR-10 105KLA-TG	12:00	moderate (<5 gal/sec) high (>5 gals/sec)	11.3	200 101.1	10.0	7.0	122.0			10.9		130		240	1.80	0.01
RCAA	105KLA-MF	11:00	Not recorded		110.2	10.4	8.0				11.1						
RCAA	106TRI	12:00	Not recorded		109.1	10.6	7.8				11.1						
RCAA RCAA	105KLA-WE 108JOL-10	12:00	Not recorded moderate (<5 gal/sec)	16.0	103.6	10.9	7.0	105.1			11.6						
RCAA	108LUF-10	8.50	high (>5 gals/sec)	9.0	60	8.0	7.0	122.0			9.0						
RCAA RCAA	109MIL-10 108MIL-20	9:35	high (>5 gals/sec) moderate (<5 gal/sec)	10.7	100	10.0	7.0	122.0			10.0		-				
RCAA	108STL-10	11:30	Stagnant water	16.5	NR	6,0	7.5	72.0			18.0						
RCAA RCAA	109LIT-10 109MAD-10	13:20	high (>5 gals/sec) high (>5 gals/sec)	17.5	60 120	9.0	7.0	122.0 45.0	_	-	11.8		-				
RCAA	109MIL-10	11:30	moderate (<5 gal/sec)	13.5	90	8.0	7.0	57.4			11.0		68		411		
RCAA RCAA	109NFM-10 109STR-10	15:00	high (>5 gals/sec)	18.3	110	8.0	7.0 8.5	120.0			15.0 12.0		67		253		
RCAA	109WID-10	10:00	moderate (<5 gal/sec) high (>5 gals/sec)	11.4	160	8.0	6.5	96.8			11.5		334		414		
RCAA	110BET-1	13:50	moderate (<5 gal/sec)	13.0	150	6.0	7.0	120.0	7.9		10.5		6		343		
RCAA RCAA	118CL 118C00-18	11:15	moderate (<5 gal/sec) trickle (<1 quart/sec)	13.0	130	10.0	7.0 8.5	120.0	11.1		9.0 12.0						
RCAA	110ELIG10	11:15	high (>5 gals/sec)	15.0	150	10.0	6.5				10.4						
RCAA RCAA	110FCR-40 110GG	11:00	high (>5 gals/sec) high (>5 gals/sec)	12.8	130	11.0	7.0	120.0	10.0	_	9.5 9.5		-				
RCAA	1100RTZ1	14:10	moderate (<5 gal/sec)	13.1	150	6.0	7.0	120.0	9.8		10.0						
RCAA RCAA	110HUM-20 110JAN-10	16:15 10:30	high (>5 gals/sec) moderate (<5 gal/sec)	13.3	58.4 120	7.6 8.0	8.0	10.8		-	15.0				S 1		
RCAA	110J0L-10	9:30	trickle (<1 quart/sec)	12.0	110	10.0	7.0	102.3			9.0				A .		
RCAA	110JTG-10	18:38 11:50	high (>5 gals/sec)	14.5	130	7.0	7.0	120.0	20.0		12.5						
RCAA RCAA	110MAR-10 110MAR-20	12:15	moderate (<5 gal/sec) moderate (<5 gal/sec)	17.0	350 190	8.0	6.5 6.5		20.0		14.0						
RCAA	110MC	11:40	moderate (<5 gal/sec)	11.5	150	8.0	7.0	120.0	8.4		9.1		8		531		
RCAA RCAA	110MCC-10 110NFE-10	13:30	high (>5 gals/sec) high (>5 gals/sec)	13.3	150 150	11.0 8.0	7.0 6.5	120.0	0.0		9.5		7		139		
RCAA	1100GA-10	16:30	trickle (<1 quart/sec)	14.0	230	7.0	6.5	21.6			12.0						
RCAA RCAA	110SFE-10 111E-1	10:45	high (>5 gals/sec) high (>5 gals/sec)	17.0	150	10.0	8.5		21.0		10.0						
RCAA	111E-2	10:40	high (>5 gals/sec)	15.5	190	9.0	8.1		18.1		13.9						
RCAA RCAA	111M-1 111M-2	10:40	high (>5 gals/sec) trickle (<1 quart/sec)	12.7	110	10.0	7.8		8.9 15.1		9.0 15.0						
RCAA	111R-1	9:30	high (>5 gals/sec)	12.0	340	10.0	7.8		20 B		9.0						
RCAA	111R-2 111RSM	9:45 9:55	moderate (<5 gal/sec)	10.0	290	9.0	8.2		5.5		11.0						
RCAA RCAA	1118-1	8:30	high (>5 gals/sec) high (>5 gals/sec)	13.5	330	9.7	7.7		13.7 62.5		11.3 9.0						
RCAA	1119-2	10:13	moderate (<5 gal/sec)	10.0	230	9.4	8.0	***	13.1		11.0						
RCAA RCAA	112MAT-05 112MAT-10	12:00	high (>5 gals/sec) high (>6 gals/sec)	15.0	100	10.0	7.5	50.0 48.5		\vdash	14.5						
RCAA	113NAV-10	14:00	high (>5 gals/sec)	15.0	230	12.0	7.0	113.0			14.0						
RCAA RCAA	113NOY-18 113PUD-10	16:00	high (>5 gals/sec) high (>5 gals/sec)	15.0 20.0	280 140	11.0	7.0	115.0 88.0	_		13.0						-
RCAA	113PUD-20	12:30	high (>5 gals/sec)	NR	140	11.0	7.5	51.0			14.0						
RCAA RCAA	1038MI-10 103ELK-10	2.15											7 46		170 430		
RCAA	108PAR-20	10:15	trickle («1 quart/sec)	9.5	140	8.0	7.0	81.0			9.5		40		430		
RCAA	110FTR 201-ALC-10	10:00 NR	high (>5 gals/sec) trickle (<1 guart/sec)	12.0	130	10.0	7.5	120.0 51.0			9.0	517	86		332 2419	0.10	0.10
SRCD	201-LAG-10	NR	high (>5 gals/sec)	17.0	240	7.0	7.5	122.0			14.0	261			1	0.10	0.10
SRCD	201-MIL-10	NR 10.44	moderate (<5 gal/sec)	20.0	1010	9.0	7.0	116.0			14.0	200				0.10	0.10
SRCD	201-TOM-10 201-WAL-10	12:44 11:28	moderate (<5 gal/sec) high (>5 gals/sec)	18.0	350 270	9.0	7.5	122.0 93.5			13.5 15.0	261			2419	0.10	0.10
SRCD	201-LAG-40	11:35	moderate (<5 gal/sec)	20.0	220	11.0	7.0	120.0			11.5	38			1300	0.16	0.10
SRCD	201-DEV-10 201-OLE-10	10:13	moderate (<5 gal/sec) high (>5 gals/sec)	19.5	330 223.9	11.0 9.6	7.6	120.0			10.5	28 387			517 2419	0.18	0.10
SRCD	201-3VC-10	12:05	moderate (<5 gal/sec)	21.1	199,8	9.5	7.4	122.0			12.2	80			649	0.23	0.10
SRCD	201-HAG-10 114-AUC-10	10:47	Not recorded moderate (<5 gal/sec)	16.7	333.4 260	10.2 6.0	7.7	122.0	0.6		10.7	2419	.11		2419	0.28	0.10
SRCD	114-BRC-10	10:09	high (>5 gals/sec)	22.0	350.9	7.3	7.9	120.0			15.8		220		500	0.40	0.10
SRCD	114-DBC-10 114-MAA-10	12:00	moderate (<5 gal/sec) Not recorded	14.0 21.5	240 200	5.0 8.0	7.0	122.0	0.7		11.0 14.5		30 130		500 240	0.40	0.10
SRCD	114-MWC-10	8:25	high (>5 gals/sec)	13.0	279	9.0	7.0	122.0	2.0		14.8		220		220	0.40	0.10
SRCD	114-RUR-10 114-RUR-20	10:20	Not recorded	9.0	590	5.0	7.5		11.6		15.0		40		110	0.40	0.10
SRCD	114-RUR-30	10:20	moderate (<5 gal/sec) high (>5 gals/sec)	21.0	280	8.0	7.5	53.0	10.8		16.0 17.0		20		170 40	0.40	0.10
SRCD	114-RUR-40	11:30	high (>5 gals/sec)	21.0	270	8.0	7.0	65.0			17.0		70		70	0.40	0.10
SRCD	114-RUR-50 114-RUR-60	12:20	high (>5 gals/sec) Not recorded	23.0 16.5	270 280	8.0 8.0	7.5	75.0 91.6			17.0		20		40	0.40	0.10
SRCD	114-SRC-10	9.00	high (>5 gals/sec)	18.0	414	9.0	7.4		1.9		14.6		300		800	0.40	0.10
SRCD	114-WIC-10 114-MAT-10	9:10	moderate (<5 gal/sec) high (>5 gals/sec)	12.0	240 342.3	5.0 7.7	7.0	120.0	4.0		10.0		50 220		170 900	0.40	0.10 0.11
SRCD	114-LSR-10	8:40	high (>5 gals/sec)	15.0	401	7.4	7.1		20.0		17.1		210		500	0.40	0.44
SRCD	114-WSL-20 114-COL-10	11:20	high (>5 gals/sec) trickle (<1 quart/sec)	17.5 27.0	703.2	6.0 8.7	7.8	120.0		-	15.5 17.6		240 500		2 800	0.60	0.10
SRCD	113-ALD-10	13.50	high (>5 gals/sec)	14.0	170	8.0	6.5				12.5		3/10		300	5.19	
SRCD	113-ARC-10	14:45 14:15	high (>5 gals/sec)	16.0	230 200	8.0 8.0	7.3	40.0			13.0						
SRCD	113-BRU-10 113-ELK-10	13:20	high (>5 gals/sec) high (>5 gals/sec)	14.0	180	6.0	7.0	122.0			13.0						
SRCD	113-FRG-10	13:40	moderate (<5 gal/sec)	17.0	200	10.0	7.7	122.0			12.0						
SRCD	113-FTR-10 113-GAR-10	NR 14:30	high (>5 gals/sec) high (>5 gals/sec)	19.0	399 170	11.3 6.0	7.0	122.0	5.0		11.2						
SRCD	113-0RW-10	12:30	high (>5 gals/sec)	16.0	180	8.0	7.0	122.0			11.5						
SRCD	113-GUA-10 113-MEY-10	13:09 NR	high (>5 gals/sec) high (>5 gals/sec)	19.0	230 424	8.0 11.8	7.8	122.0	1.1		16.0						
SRCD	113-MIC-10	NR	high (>5 gals/sec)	18.0	230	11.5	8.0		5.5		11.2						
SRCD	113-NAV-10	15:40 15:20	high (>5 gals/sec)	15.0	1160	8.0	7.5	122.0			15.0						
SRCD	113-NFG-10	15.20	high (>5 gals/sec)	19.0	170	8.0	7.5	122.0	1		15.0				1		

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смс	StationID	Time of Field Measurements	Flow	AirTemp (Deg C)	Conductivity (uS)	Dissolved Oxygen (ppm)	рН	Tranparency (cm)	Turbidity (JTU)	Salinity (ppt)	WaterTemp (Deg C)	E. Coli (MPN/100 ml)	Fecal coliform (CFU/100 ml)	Enterrococcus (MPN/100ml)	Total coliform (MPN/100ml)		Ortho- phosphate-P (mg/L)
SRCD	113-RUG-10	10:15	high (>5 gals/sec)	19.0	204	11.2	8.3		0.8		12.6						
SRCD	113-SAL-10	15:35	high (>5 gals/sec)	18.0	160	8.0	7.6	117.0			14.0						
SRCD	113-SCG-10 113-SCH-10	14:10 16:05	high (>5 gals/sec)	15.0 18.0	180	10.0	7.9	115.0 122.0			11.0 12.0						
SRCD	113-SEG-10	10.03 NR	moderate (<5 gal/sec) high (>5 gals/sec)	19.0	180 230	8.0	7.1	122.0			17.0						
SRCD	113-STF-10	NR	high (>5 gals/sec)	18.5	230	11.4	8.1	122.0	2.6		10.5						
SRCD	113-TIM-10	NR	high (>5 gals/sec)	18.5	360	10.7	8.1		2.5		11.0						
SRCD	113-WFG-10	16:20	high (>5 gals/sec)	21.0	240	8.0	7.9	122.0			19.0						
SRCD	114-PAU-10	9:30 12:00	moderate (<5 gal/sec)	14.0	275.3 453.8	7.7 6.5	7.8	120.0 120.0			13.8						
SRCD	114-PET-10 114-PIN-10	12:30	moderate (<5 gal/sec) high (>5 gals/sec)	24.0	453.8 596.7	9.8	7.9	120.0			16.8						
SRCD	115-CHG-10	10:35	high (>5 gals/sec)	15.0	350	9.5	7.7	120.0	2.9		13.0						
SRCD	115-EAM-10	10:02	trickle (<1 quart/sec)	16.0	1260	8.0	7.5		20.7		17.0						
SRCD	115-ESA-10	10:28	trickle (<1 quart/sec)	17.0	1430	10.0	7.5		10.1		18.0						
SRCD	115-JOG-10 115-MAG-10	9:50 9:30	moderate (<5 gal/sec) moderate (<5 gal/sec)	17.0 16.0	380 290	10.5	7.8		8.8		12.0						
SRCD	115-SAC-10	8:30	high (>5 gals/sec)	12.0	2500	9.8	7.5		3.9		12.0						
SRCD	115-SCC-10	9:00	moderate (<5 gal/sec)	13.0	2	11.4	7.9		2.2		12.0						
SRCD	201-1VC-10	11:28	moderate (<5 gal/sec)	21.1	173.3	9.7	7.8	120.0			11.7						
SRCD	201-2VC-10	11:50	moderate (<5 gal/sec)	18.9	260	9.6	7.8	122.0			11.9						
SRCD SRCD	201-BVC-10 201-DUX-10	9:55 10:48	moderate (<5 gal/sec) Not recorded	16.7 13.3	342.2 51600	9.7	7.1 8.1	122.0 37.0			11.3 14.5	1			8		
SRCD	201-FHC-10	11:11	moderate (<5 gal/sec)	18.9	301.9	9.9	7.8	122.0			11.4	'			·		
SRCD	201-LAG-30	10:50	moderate (<5 gal/sec)	16.5	240	10.0	7.5	120.0			11.0						
SRCD	201-MPP-10	12:00	Not recorded	16.0	OR	8.0	8.0	12.1			15.0	39			157		
SRCD	201-SGC-20	12:00	moderate (<5 gal/sec)	31.0	360	8.0	7.5	120.0			13.5						
SRCD	201-SGC-30 201-WBC-20	12:54 17:05	moderate (<5 gal/sec) moderate (<5 gal/sec)	18.0 18.0	330	9.0	7.5	120.0			12.0 11.5						
SRCD	201-WBC-30	16:25	moderate (<5 gal/sec) moderate (<5 gal/sec)	17.5		10.2	7.5				11.5						
SRCD	201-WBC-40	15:15	moderate (<5 gal/sec)	17.5		9.8	7.5				13.0						
SRCD	201-WBC-45	15:15	moderate (<5 gal/sec)	21.5		9.8	7.5				11.5						
FOE	204-GUADA-22	12:45	high (>5 gals/sec)	24.5	480	15.0	8.5				18.0	98			2143	0.00	0.00
FOE FOE	204-STEVE-21 204-LOSGA-21	14:45 15:30	high (>5 gals/sec) Stagnant water	34.0 26.0	510 420	9.7	8.0		20.0 10.0		18.0 21.7	663 30			3873 3076	0.00	0.00 0.10
FOE	205-MATAD-25	10:02	moderate (<5 gal/sec)	16.7	420	11.0	7.5		10.0		16.1	30			3076	0.10	0.10
FOE	204-GUADA-21	9:45	high (>5 gals/sec)	14.8	660	10.0	8.0		5.0		17.0	278			24192	0.20	1.00
FOE	205-SANFRA-21	10:45	moderate (<5 gal/sec)	15.6		9.8	7.5		0.0		13.9					0.60	0.09
FOE	205-ADOBE-23	11:15	moderate (<5 gal/sec)	18.5			8.0		0.0		13.8					0.80	0.31
FOE	205-MATAD-21 203-CODOR-020	12:50 14:16	moderate (<5 gal/sec)	22.8 20.6		10.7	8.0 8.1		90.0		23.1 16.0					0.80	0.57
FOE	203-CODOR-020 203-CODOR-040	14:39	moderate (<5 gal/sec) moderate (<5 gal/sec)	22.0		9.7	8.1				14.6						
FOE	203-CORTE-21	11:50	moderate (<5 gal/sec)	20.6		10.2	7.9		0.0		13.4						
FOE	203-STRAW-21	13:30	Not recorded	16.5	570	9.3	8.0				14.5						
FOE	204-ALAME-21	11:00	moderate (<5 gal/sec)			6.6	8.0		5.0		16.5						
FOE	204-ALAME-22	14:00 9:54	moderate (<5 gal/sec)			6.7	8.0 7.5		0.0		20.5						
FOE	204-ALAME-23 204-ALAME-24	10:15	moderate (<5 gal/sec) Stagnant water			11.0 6.5	7.0		5.0		17.0 17.5						
FOE	204-ARROY-21	17:15	moderate (<5 gal/sec)	20.0	720	8.8	8.5		0.0		17.5						
FOE	204-CORDI-21	11:20	moderate (<5 gal/sec)	20.6		10.7	8.1				16.0						
FOE	204-DAMON-21	11:00	Not recorded			6.8	8.5										
FOE	204-GLENE-21	14:45 12:45	moderate (<5 gal/sec)	22.5		10.0	7.5 7.5				15.5						
FOE	204-LAKEM- 204-LAKEM-212	11:15	Stagnant water Stagnant water	17.0 24.0		8.0 6.0	7.0				22.0 18.0						
FOE	204-LAKEM-217b	11:55	Stagnant water	20.0		5.0	7.0				19.0						
FOE	204-LAKEM-25	12:05	Stagnant water	23.0		6.0	7.0				19.0						
FOE	204-LAKEM-29	11:00	Stagnant water	22.0		6.0	7.0				18.0						
FOE FOE	204-LAKEM-5b	0:20 15:15	Stagnant water	18.0 21.0		6.0	7.0 8.5		0.0		19.0 17.0						
FOE	204-PERAL-21 204-SANLE-21	19:10	moderate (<5 gal/sec) trickle (<1 guart/sec)	18.5	630	12.0	8.0		0.0		16.5						
FOE	204-SAUSA-22	9:30	moderate (<5 gal/sec)	15.9		10.3	8.2				11.1						
FOE	204-SLE-044	11:55	trickle (<1 quart/sec)	18.5		3.9	8.6		5.0		14.0						
FOE	204-SULPH-21	19:45	trickle (<1 quart/sec)	13.5		7.2	8.5		0.0		14.0						
FOE FOE	204-TEMES-21 205-ADORE-24	8:40 11:50	moderate (<5 gal/sec)			10.8	8.0 7.0		1.5		12.0						
FOE	205-ADOBE-24 205-MATAD-22	12:18	Stagnant water moderate (<5 gal/sec)	22.0 20.0			8.0		10.0		22.0 13.6						
FOE	205-MATAD-23	11:25	moderate (<5 gal/sec)	21.1			8.0		5.0		14.7						
FOE	205-MATAD-24	11:25	moderate (<5 gal/sec)	19.4			8.0		10.0		12.8						
FOE	205-MATAD-26	10:45	trickle (<1 quart/sec)	16.7	4077		8.5		30.0		11.1						
FOE FOE	206-PINOL-21 206-PINOL-22	7:10 8:50	moderate (<5 gal/sec) Not recorded	10.5	1600 1500		7.5 7.5		8.0 3.0		14.0						
FOE	206-PINOL-22 206-PINOL-23	9:46	moderate (<5 gal/sec)	19.5	1400		8.0		32.0		14.0						
FOE	206-PINOL-24	10:30	moderate (<5 gal/sec)	20.5	1400		8.0		17.0		14.0						
FOE	206-SANPA-21	14:45	moderate (<5 gal/sec)	21.0	1620	10.0					15.0						
FOE	206-WILDC-21	10:15	trickle (<1 quart/sec)	21.5			7.6				13.5						
FOE FOE	206-WILDC-22 206-WILDC-23	11:00 12:00	moderate (<5 gal/sec) moderate (<5 gal/sec)	19.0 22.0		9.6	7.6		0.0		14.5						
FOE	208-WILDC-23 207-ADH-1	12:30	moderate (<5 gal/sec)	20.0		8.2	8.0		0.0		14.0						
FOE	207-ALHAM-6	11:20	moderate (<5 gal/sec)	20.0		9.5	8.0		0.0		13.5						
FOE	207-KIRKE-214	14:05	trickle (<1 quart/sec)	27.2		9.9	7.3		10.0		25.8						
FOE	207-KIRKE-26	12:20	moderate (<5 gal/sec)	26.5	00.7	4.5	7.4		5.0		14.7						
FOE	207-SANRA-21 207-UNAM-21	7:10 NR	moderate (<5 gal/sec)	13.5 26.0	930	9.4	7.5		0.5		15.5 17.0						
FOE	207-WALNU-21	11:10	trickle (<1 quart/sec) moderate (<5 gal/sec)	16.7	1020	5.0 9.2	1.0		0.5		17.0						
MBNMS	202-GAZOS-11	10:54	moderate (<5 gal/sec)	16.0	320	8.0	7.0		5.0		11.0	262			882	0.00	0.00
MBNMS	202-9AZOS-12	11:36	moderate (<5 gal/sec)	24.0	260	8.0	7.0		0.0		11.0	10			132	0.00	0.00
MBNMS	202-GAZOS-13	12:04	moderate (<5 gal/sec)	17.0	290	8.0	7.5		0.0		11.0	10			216	0.00	0.00
MBNMS	202-LAHON-11	12:30 11:15	moderate (<5 gal/sec)	15.0 14.0	680	9.8	8.0 6.5		5.0		10.0 14.0	142 199			738 2723	0.00	0.00
MBNMS MBNMS	202-MONTA-12 202-SANGR-11	10:30	trickle (<1 quart/sec) high (>5 gals/sec)	13.0	380 OR	9.4	7.5		15.0		14.0	199			759	0.00	0.00
MBNMS	202-TUNIT-11	12:50	high (>5 gals/sec)	20.0	710	10.8	7.5		2.0		10.6	10			85	0.00	0.00
MBNMS	202-WHITE-12	10:00	moderate (<5 gal/sec)	14.2	300	9.2	7.5		5.0		11.6	74			934	0.00	0.00
MBNMS	304-APTOS-22	12:37	moderate (<5 gal/sec)	15.5	640	10.0	7.5	120.0			13.0	52			546	0.00	0.00
MBNMS MBNMS	304-ARROY-21 304-LAGUN-21	11:00 11:35	trickle (<1 quart/sec) moderate (<5 gal/sec)	17.0 20.1	530 600	6.4 9.8	7.0 7.5		5.0 1.0		13.0	135 211			677 1236	0.00	0.00
MBNMS	304-MOORE-22	12:19	trickle (<1 quart/sec)	17.4	280	3.0	6.5		2.0		14.1	5			1236	0.00	0.00
MBNMS	304-ROBSC-21	NR	moderate (<5 gal/sec)	21.0	420	13.8	8.5		5.0		22.0	546			1782	0.00	0.00
MBNMS	304-SANLO-26	14:30	high (>5 gals/sec)	21.0	400	9.0	7.0		0.0		15.0	5			546	0.00	0.00

СМС	StationID	Time of Field Measurements	Flow	AirTemp (Deg C)	Conductivity (uS)	Dissolved Oxygen (ppm)	рН	Tranparency (cm)	Turbidity (JTU)	Salinity (ppt)	WaterTemp (Deg C)	E. Coli (MPN/100 ml)	Fecal coliform (CFU/100 ml)	Enterrococcus (MPN/100ml)	Total coliform (MPN/100ml)	Nitrate-N (mg/L)	Ortho- phosphate-P (mg/L)
MBNMS	304-80QUE-21 307-CARME-310	11:10 11:30	high (>5 gals/sec) moderate (<5 gal/sec)	17.0 16.5	650 283	9.4	7.5 8.0	121.0 118.0			13.5 15.0	158 11			1223 921	0.00	0.00
MBNMS	307-CARME-33	11:47	high (>5 gals/sec)	21.0	260	9.8	6.5	120.0			16.0	16			1410	0.00	0.00
MBNMS	307-CARME-35 307-CARME-36	NR 12:35	high (>5 gals/sec) moderate (<5 gal/sec)	21.0 16.0	270 275	10.7 10.6	6.5 8.0	120.0 118.0			16.5 16.0	16 40			1120 1300	0.00	0.00
MBNMS	307-CARME-37	12:15	moderate (<5 gal/sec)	13.0	280	11.2	8.0	118.0			15.5	4			1120	0.00	0.00
MBNMS	307-CARME-38 307-CARME-39	10:30 NR	moderate (<5 gal/sec) high (>5 gals/sec)	16.0 14.0	282	10.4 7.0	8.0 6.5	118.0 117.0			14.3 15.0	11 1050			1300 2420	0.00	0.00
MBNMS	307-GARZA-31	13:04	moderate (<5 gal/sec)	26.5	210	9.7	7.0	120.0			16.0	17			2420	0.00	0.00
MBNMS	308-BIGSU-31 308-BIGSU-32	10:55 11:40	moderate (<5 gal/sec) moderate (<5 gal/sec)	18.3 18.3	260 230	10.1	7.5 7.5				13.3	25 7			816 225	0.00	0.00
MBNMS	308-D0UD-31	12:07	moderate (<5 gal/sec)	13.0	250	8.5	7.0	119.4			10.5	20			2400	0.00	0.00
MBNMS	308-GARRA-31 308-HOTSP-31	12:10 13:43	high (>5 gals/sec) high (>5 gals/sec)	15.0 15.6	150 310	11.5 10.0	7.0	117.0			11.0 13.5	36 7			1050 727	0.00	0.00
MBNMS	308-MCWAY-31	13:10	moderate (<5 gal/sec)	20.0	310	10.7	7.5				13.3	1			161	0.00	0.00
MBNMS	308-PALOC-31 308-PARTI-31	11:10 12:43	moderate (<5 gal/sec)	15.5 16.7	44 280	9.2 10.7	7.5 7.5	32.5			10.0 12.9	116 93			2420 416	0.00	0.00
MBNMS MBNMS	308-ROCKY-31	11:00	high (>5 gals/sec) high (>5 gals/sec)	14.3	140	10.7	7.0	63.0			10.3	19			548	0.00	0.00
MBNMS MBNMS	308-SANJ0-31 308-SOBER-31	NR NR	Stagnant water moderate («5 gal/sec)	19.0 18.0		6.0 8.0	6.3 6.5	117.0 117.0			12.0 13.0	44 8			1550 2400	0.00	0.00
MBNMS	309-ATASC-42	9:00	high (>5 gals/sec)	15.0	460	7.0	7.0	117.0			14.5	231			1313	0.00	0.00
MBNMS	309-GRAVE-41 309-MAJOR-31	11:20 10:25	high (>5 gals/sec)	21.0 15.0	810 1240	9.0	7.5 8.0				16.0 13.0	1223 113			11199 2400	0.00	0.00
MBNMS	309-PASOR-41	9:45	trickle (<1 quart/sec) high (>5 gals/sec)	19.0	640	7.0	8.5				17.0	201			1725	0.00	0.00
MBNMS	309-RINCO-41	11:35	moderate (<5 gal/sec)	31.0	040	8.0	8.2		-		19.0	789			3255	0.00	0.00
MBNMS	309-SALIN-44 309-SALIN-45	10:50 NR	high (>5 gals/sec) trickle (<1 quart/sec)	27.0 29.0	810	10.0 7.0	7.5 8.2				19.5 20.0	63 41			1658 1354	0.00	0.00
MBNMS	309-SALIN-47	10:15 11:40	high (>5 gals/sec)	25.0	740	8.5	8.3				17.0	31			2014	0.00	0.00
MBNMS MBNMS	309-SKYLI-31 309-SMARG-41	9:50	trickle (<1 quart/sec) high (>5 gals/sec)	16.0 17.5	520 730	10.0 7.0	8.5 8.0				20.0 17.5	10 305			2490 4106	0.00	0.00
MBNMS	310-CARPO-41	9:55	high (>5 gals/sec)	16.0	360	9.0	7.5	116.0			14.5	41			512	0.00	0.00
MBNMS MBNMS	310-DAL-41 310-SANTA-41	NR NR	trickle (<1 quart/sec) moderate (<5 gal/sec)	17.0 15.5	940 770	10.8 12.6	7.9 8.0	120.0	0.5		16.6 15.5	97			1789	0.00	0.00
MBNMS	317-ESTRE-43	12:15	moderate (<5 gal/sec)	26.0	1270	9.5	8.3				24.0	1274			6488	0.00	0.00
MBNMS	309-ATASC-41 310-PENN-41	10:22 NR	high (>5 gals/sec) moderate (<5 gal/sec)	17.5 13.0	790 780	7.0 8.5	7.5		0.7		16.5 13.5	216 624			4611 1850	0.00	0.06
MBNMS	304-APTOS-21	11:15	high (>5 gals/sec)	15.5	690	9.0	7.5	120.0			11.5	31			789	0.00	0.10
MBNMS MBNMS	304-APTOS-23 304-FERRA-21	13:15 12:50	Stagnant water moderate (<5 gal/sec)	18.5 14.5	740 400	9.0 7.0	7.5	48.4	0.0		15.0 13.0	275 576			1017 2143	0.00	0.10 0.10
MBNMS	309-YERBA-41	10:25	trickle (<1 quart/sec)	26.0	1605	4.5	7.8				15.0	987			4352	0.00	0.19
MBNMS	309-MOROC-33 309-TROUT-41	11:00	trickle (<1 quart/sec) moderate (<5 gal/sec)	17.0 27.0	33	7.4	9.0 8.2	6.0			26.0 15.5	100 805			199000 3654	0.00	0.21
MBNMS	309-MOROC-32	11:27	trickle (<1 quart/sec)	17.0	32	9.0	9.0	2.0			22.0	24192			190000	0.00	0.93
MBNMS MBNMS	304-CORCO-22 304-CORCO-21	13:38 11:15	moderate (<5 gal/sec) Stagnant water	20.0 18.0	OR OR	8.6 8.2	9.0		5.0 5.0		17.5 22.0	130 189			24192 8664	0.02	0.00
MBNMS	304-MOORE-26	13:56	moderate (<5 gal/sec)	24.0	OR	10.0	8.5		40.0		22.0	85			1842	0.05	0.00
MBNMS	202-DENNI-11 308-SYCAM-31	13:30 12:02	moderate (<5 gal/sec) trickle (<1 quart/sec)	18.0 17.8	280 280	9.2 8.5	7.0				12.0 13.0	31 3			857 248	0.07	0.00
MBNMS	309-VETER-31	12:25	trickle (<1 quart/sec)	18.0	1447	6.0	7.0	130.0			15.0	10			8840	0.08	0.00
MBNMS	304-8COTT-22 304-WADDE-21	12:00 11:00	high (>5 gals/sec) high (>5 gals/sec)	16.0	100	9.2	7.0		0.0		12.0	52 20			563 388	0.10	0.05
MBNMS	304-SANLO-22	10:40	moderate (<5 gal/sec)	20.0	OR	7.7	8.0	121.0			15.0	259			1187	0.11	0.05
MBNMS	202-ALPIN-11 202-MONTA-11	11:45 11:15	moderate (<5 gal/sec) trickle (<1 quart/sec)	15.5 14.0	830 370	9.6 8.4	8.0 6.5		15.0		10.5 13.0	85			987 3076	0.12	0.00
MBNMS	202-WHITE-11	11:08	moderate (<5 gal/sec)	13.5	250	10.8	7.0		5.0		12.0	313 10			443	0.12	0.00
MBNMS MBNMS	304-8COTT-23 304-LITTL-21	13:00 12:30	high (>5 gals/sec) high (>5 gals/sec)	16.0 15.5	100 300	10.0	7.0		0.0		12.0 12.0	10 5			398 448	0.12	0.05 0.10
MBNMS	304-VALEN-21	12:04	moderate (<5 gal/sec)	17.2	640	8.0	7.5	120.0	0.0		13.0	,			440	0.12	0.20
MBNMS	304-SCOTT-24 202-PESCA-11	13:30 12:45	high (>5 gals/sec) moderate (<5 gal/sec)	14.0 12.0	100 570	10.0 8.0	7.0		0.0 5.0		13.0	5 96			416 650	0.13	0.05
MBNMS	304-SANVI-21	12:19	high (>5 gals/sec)	17.0	300	9.8	7.5		0.0		10.2	10			249	0.14	0.05
MBNMS	202-LOBIT-11 202-PURIS-11	12:05 11:20	moderate (<5 gal/sec)	18.5 15.0	830 600	11.0 11.0	7.5		9.7		10.0 9.9	909 20			1782 187	0.15 0.16	0.10
MBNMS	304-BOULD-21	12:16	high (>5 gals/sec) moderate (<5 gal/sec)	27.8	312	5.8	7.8		2.9		13.8	110			581	0.16	0.05
MBNMS MBNMS	304-MOORE-24 304-MAJOR-21	10:50 10:38	moderate (<5 gal/sec) moderate (<5 gal/sec)	15.1 20.4	540 400	7.0 8.8	6.5 7.5		3.0		11.9 10.2	228 275			1789 794	0.18	0.05 0.05
MBNMS	202-POMPO-11	9:50	moderate (<5 gal/sec) moderate (<5 gal/sec)	13.0	1670	8.8	7.5		15.0		11.0	195			794 3448	0.19	0.00
MBNMS MBNMS	310-SBE-41 304-BRANC-21	11:45 12:48	trickle (<1 quart/sec) moderate (<5 gal/sec)	16.4 22.0	880 450	9.7 13.2	7.9 8.5	121.0	1.6		16.3 18.5	24192 314			24192 3255	0.20	0.13 0.15
MBNMS	305-WATSO-21	10:45	Stagnant water	18.0	276	0.3	7.2	88.6			14.1	9208			24196	0.20	0.34
MBNMS MBNMS	305-STRUV-21 202-MARTI-11	10:05 10:20	Stagnant water trickle (<1 quart/sec)	17.5 13.0	200 250	4.5 8.8	7.5 7.0	90.0			17.0 11.0	315 132			12997 689	0.20	0.43
MBNMS	202-MARTI-11 304-ARANA-22	11:15	moderate (<5 gal/sec)	14.5	250 OR	5.7	8.0	40.2			13.5	74			1664	0.21	0.05
MBNMS MBNMS	304-SANLO-21	11:50 11:02	moderate (<5 gal/sec)	25.1 14.5	450	8.5	8.0 7.5	121.0			15.0 13.0	135			1309	0.24	0.05
MBNMS	309-LIBRA-31 304-ARANA-23	14:40	trickle (<1 quart/sec) moderate (<5 gal/sec)	14.5	1680 320	11.0 9.0	7.5	106.0 121.0			13.0	4350 62			24000 985	0.25	0.00
MBNMS	304-SANLO-25	10:00 11:56	moderate (<5 gal/sec)	17.0	600	9.0	7.0		0.0 15.0		10.5	41			744	0.26	0.10
MBNMS MBNMS	202-CALER-11 202-SANPE-11	13:00	moderate (<5 gal/sec) trickle (<1 quart/sec)	19.6 15.3	363 428	9.6 9.7	7.0 7.5		15.0 5.0		13.2 16.9	169 203			3255 5475	0.30	0.00
MBNMS	305-HARKI-23	14:00 11:40	moderate («5 gal/sec)	28.5	300	6.0	7.5	41.2			14.0	373			9804	0.30	0.12
MBNMS MBNMS	304-BRANC-22 305-WSTRU-21	9:45	moderate (<5 gal/sec) Stagnant water	18.0 17.0	420 600	8.2 1.5	7.0	120.0 88.0			14.5 12.5	327 145			1585 2987	0.30	0.15 0.22
MBNMS	305-STRUV-22	11:10 13:17	Stagnant water	18.5	400	4.0	7.5 7.5	121.0	0.0		19.0	108			2723	0.30	0.77
MBNMS MBNMS	304-MOORE-25 202-SANVI-11	12:30	trickle (<1 quart/sec) trickle (<1 quart/sec)	19.9 16.0	460 300	7.0 9.4	7.5		0.0		14.2 13.0	41 565			2046 1850	0.31 0.35	0.05
MBNMS	202-MILLC-11	10:30	high (>5 gals/sec)	19.5	710	10.8	7.0		8.3		9.5	63			1012	0.36	0.00
MBNMS MBNMS	202-BUTAN-11 305-CORRA-22	13:08 15:00	moderate (<5 gal/sec) high (>5 gals/sec)	16.0 20.5	330 400	8.0 7.0	7.5 7.5	121.0	10.0		12.0 14.0	20 45			613 2420	0.38	0.00
MBNMS	309-SALIN-46	11:20	high (>5 gals/sec)	21.0	1030	9.3	8.5				22.0	52			1935	0.40	0.47
MBNMS MBNMS	304-ARANA-21 308-MALPA-31	13:25 12:45	moderate (<5 gal/sec) moderate (<5 gal/sec)	23.0 19.5	490 220	8.6 10.4	7.5	121.0 117.0			12.5 12.9	547 16			2143 2420	0.43	0.21
MBNMS	304-MOLIN-21	13:35	moderate («5 gal/sec)	19.5	200	9.4	7.0		0.0		10.3	96			1500	0.49	0.17
MBNMS MBNMS	304-MOORE-23 306-ELKH0-32	14:02 12:15	moderate (<5 gal/sec) Stagnant water	20.1 18.6	500	7.0 2.5	6.5 7.6		0.0 6.1	31.70	13.2 19.0	110 410			932 4840	0.53 0.60	0.05 0.27
MBNMS	304-CARBO-21	13:15	moderate (<5 gal/sec)	17.0	390	9.6	7.0	121.0			15.0	243			1464	0.67	0.05

Monte Mont	СМС	StationID	Time of Field Measurements	Flow	AirTemp (Deg C)	Conductivity (uS)	Dissolved Oxygen (ppm)	рН	Tranparency (cm)	Turbidity (JTU)	Salinity (ppt)	WaterTemp (Deg C)	E. Coli (MPN/100 ml)	Fecal coliform (CFU/100 ml)	Enterrococcus (MPN/100ml)	Total coliform (MPN/100ml)	Nitrate-N (mg/L)	Ortho- phosphate-P (mg/L)
September 1989 19																		
Section Process Section Sect																		
									32.4	13.6								
Service Source 1	MBNMS	306-ELKHO-31	11:55	moderate (<5 gal/sec)	18.7		6.2	8.0		11.0		16.8	46			260	1.10	0.07
Separate 1909						400					31.97							
									120.0	0.0								
Section Sect									14.1			 						
									130.0	9.1								
March 1998									130.0	5.0								
Sect MacRon 14 22 Sect 15 23 15 15 15 15 15 15 15 1																		
Section 1985									23.6	5.0								
MANIEL 1995	MBNMS	310-UCF-41	9:58	moderate (<5 gal/sec)	14.3	1010	8.5	7.7				15.4	161			2851	3.80	0.59
MANIAN DARFORD 1154									57.0	5.0								
March 1994-1999-27 1920									121.0	5.0								
Section 1988 1988 1989	-				_			_										
Section Sect	-								79.6	12.2								
September Sept									59.0	12.3								
Month March Marc																		
			10:38	1														
Section Sect						2200			0.0	4.1	0.98							
	-				12.2				9.0									
Service 248 AULES-27 11.20 mediane (c) games 10.0 670 770	MBNMS	309-ALISA-31	11:30	trickle (<1 quart/sec)		3200	8.0	8.5				21.0	310			173000		
	-								121.0	0.0								
Marie September 1,000												 						
MANIES 308-PERON 11 15/20 Tropic of gardenic 50 208 10.7 81 6.0 13.6 5.9			13:30									13.2	_					
	MBNMS	308-VICEN-31	12:15	high (>5 gals/sec)	18.0	270	10.4	8.2		5.0		12.5	30					
SSCK 315-Sept-01 11:30 molerate (cipates) 172 1412 8.2 8.5 19.4 0 9.00 0.01																		
BBCK 315 Cyme-01 14,10 molerate (c 5 gardes) 78 147 70 70 70 70 70 70 70							11.3									0	0.00	0.01
BBCK 315-Gam-91 11.045 molerate (c garbes) 17.9 1470 7.0 7.0 7.0 1.000 15.7 122 9.33 0.00 0.07						5790				1.2								
BBCK 315-CapaB-1 1135 segr. C5 gastreso 167 900 94 7.5 1200 161 74 259 0.01 0.05 0.0	-					1470												
BBCK 315-Equil-01 112-02 high c-5 gatatases 18 20 20 115 75 120.0 152 41 860 0.01 0.04			11:35															
BBCK 315-layap 01 11:30 moderate of spaties 178 100 85 1142 210 455 210 001 111 111 113 002 009 115 115 110 113									420.0	0.5								
BBCK 315-Pine 112-25						920												
BBCK 315-Jahan-01 10.38 misselect quartheese 1391 97 81 0.0 198 89 2005 0.02 0.32 0.05																		
BBCK 401-1400-01 10.30 moderate (< 5 galaxes) 22 9880 10.5 8.2 2.3 17.1 111 13033 0.94 0.05					16.9				120.0	0.0								
BBCK 315-Camarb-01 12-45 Notrecorded 17-8 49000 127 8.3 0.9 15.9 1.0 278 0.07 0.02			10:30		22.2													
BBCK 315-Billane 12-10 19-8 07-8 08-8 07-8 08-8				1 - 1					120.0									
BBCK 316-Pismo-01	-			Not recorded					120.0	0.9								
SBCK 315-Missh-01 11-10 moderate (5-ga/sec) 16.8 12200 8.0 8.0 120.0 16.8 3142 3143	SBCK	310-Pismo-01		trickle (<1 quart/sec)		1507	7.5	7.6		0.0		14.5	238			1652	0.10	1.30
BBCK 315-Monte-01 10.25 moderate (<5 galfee) 19.9 16.20 10.5 8.0 0.1 11.88 197 2481 0.11 0.05		313 001141 01	11.10	moderate (-5 gasses)	11.0		0.0	1.0	120.0			10.7	103			4011		0.00
BBCK 315-Bip-01									120.0	0.1								
SBCK 315-Burn-01 10:20 moderate (-5 paisee) 23 19400 9.0 8.0 120.0 19.2 570 24192 0.31 0.06 0.01 0.05 0.05	SBCK	· · · · · · · · · · · · · · · · · · ·	11:36	moderate (<5 gal/sec)	16.8		8.0	8.0				20.3	14136			24192	0.13	0.08
BBCK 402-Ventu-01 12:30 high (~6 pals/sec) 13:3 1070 10.7 8.6 3.3 18:9 41 10 0.65 0.01						19400												
SBCK 403-BubP+01	SBCK		12:30					8.6	.20.0	3.3								
SBCK 401-Sauces-01 10:50 moderate (<6 gal/sec) 21.1 2080 12.9 8.3 0.7 16.2 31 332 1.15 0.06									120.0									
SBCK 315-Sipse-04 11:45 moderate (<5 gal/sec) 22.9 1500 12.4 8.0 120.0 19.8 253 8664 1.22 0.03	-									_								
SBCK 315-Sinos-02 NR moderate (<5 gal/sec) 21.1 1200 10.6 8.3 120.0 17.4 108 2909 1.56 0.04	SBCK		10:30	moderate (<5 gal/sec)	22.9			8.0	120.0			19.8					1.22	0.03
SBCK 315-Rinco-01 11:40 high (~5 gal/sec) 18.9 1427 10.9 8.1 2.2 17.3 350 2723 1.68 0.06																		
SBCK 315-Rinco-02 10.45 moderate (-6 gal/sec) 18.9 1415 13.2 8.0 2.0 16.7 327 2755 1.73 0.05			11:40						120.0	2.2	L							
SBCK 310-ArCra-01 10:26 moderate (<5 gal/sec) 962 9.0 8.0 1.4 15.4 271 2005 1.88 0.30	SBCK	315-Rinco-02		moderate (<5 gal/sec)	18.9	1415	13.2	8.0				16.7	327			2755	1.73	0.05
SBCK 315-Santo-01 11:51 htickle (<1 quartisec) 2764 8.2 7.9 1.3 17.7 504 2005 1.90 1.10			12:30		18.1				120.0	1.4								
SBCK 315-Hask-01 13:40 moderate (<5 gal/sec) 16.3 1410 7.6 8.0 120.0 16.2 175 2481 2.61 0.02			11:51															
SBCK 403-BubAS-01 11:50 trickle (<1 quart/sec) 19:0 18:00 06 6:9 4:9 19:1 10 14:136 2:68 0.08 SBCK 315-Monic-01 12:15 moderate (<5 gal/sec) 18:1 5:97 19:4 9:4 0.0 220 4:1 9:804 373 0.08 SBCK 315-Frem-01 11:40 moderate (<5 gal/sec) 18:3 14:00 12:1 8:5 0.0 16:8 9.7 18:72 3.74 0.05 SBCK 315-Guema-01 12:55 moderate (<5 gal/sec) 17:9 7:0 8:0 12:0.0 16:2 4:1 3:654 3:81 0.07 SBCK 402-Sand-0-01 9:40 moderate (<5 gal/sec) 23:3 10:070 9.7 8:0 6:0 19:4 354 12:986 4:23 0.08 SBCK 402-Sand-0-01 11:02 Stagnant-water 24:0 14:050 15:0 8.7 7:0 19:8 2:03 14:136 5:46 0.03 SBCK 315-Came-01 12:30 trickle (<1 quart/sec) 18:0 22:00 12:0 8:5 12:0 25:8 35:9 7:270 5:95 0.03 SBCK 315-Bell-01 13:00 moderate (<5 gal/sec) 18:1 1990 11:4 8:0 12:00 16:2 12:1 12:032 6:03 0.68 SBCK 315-Frem-01 13:15 trickle (<1 quart/sec) 24:8 23:00 17:9 20:08 21:192 12:15 0.09 SBCK 315-Frem-01 13:15 trickle (<1 quart/sec) 15:5 5.7 7:4 7:0 2:1 64 16:52 12:31 2:38 SBCK 315-Frem-01 12:24 moderate (<5 gal/sec) 15:5 5.7 7:4 7:0 2:1 64 16:52 12:31 2:38 SBCK 315-Frem-01 12:50 trickle (<1 quart/sec) 19:8 2:100 8:3 3:100 17:8 12:1 8:66 12:71 15:50 SBCK 315-Frem-01 12:50 trickle (<1 quart/sec) 19:8 2:100 8:3 3:100 17:8 12:1 8:66 12:71 15:50 SBCK 315-Frem-01 12:50 trickle (<1 quart/sec) 19:8 2:100 8:0 8:3 12:00 17:8 12:1 8:66 12:71 15:50 SBCK 315-Frem-01 12:50 trickle (<1 quart/sec) 19:8 2:100 8:0 8:3 12:00 17:8 12:1 8:50 12:71 15:50 11:00 13:00 11:00 8:0 7:6 0:00 16:50 2:88 2:00 12:71 15:50 11:00 13:00 11:00 8:0 7:6 0:00 16:50 8:80 2:00 12:71 15:50 11:00 13:00 11:00 11:00 11:00 11:00 11:00 11:00 11:00 11:00 11																		
SBCK 315-Monic-01 12:15 moderate (<5 gal/sec) 18.1 597 19.4 9.4 0.0 23.0 41 98.04 3.73 0.06	-								120.0	4.9								
SBCK 315-Quema-01 12:55 moderate (<5 gal/sec) 17:9 7:0 8:0 12:0 16:2 41 36:4 381 0.07	SBCK	315-Monic-01	12:15	moderate (<5 gal/sec)	18.1	597	19.4	9.4		0.0		23.0	41			9804	3.73	0.06
SBCK 402-SanJo-01 9.40 moderate (<6 gal/sec) 23.3 10070 9.7 8.0 8.0 19.4 354 12986 4.23 0.08						1400			120.0	0.0								
SBCK 403-Omnon-01 11:02 Stagnant water 24.0 14050 15.0 8.7 7.0 19.8 203 14136 5.46 0.03 SBCK 315-Carme-01 12:30 trickle (<1 quartises) 18.0 2200 12.0 8.5 12.0 258 359 7270 5.95 0.03 SBCK 315-Bell-01 13:00 moderate (<5 gal/sec) 18.1 1990 11.4 8.0 12.0 15.2 12.1 12032 6.53 0.06 SBCK 315-Frem-01 13:15 trickle (<1 quartisec) 24.6 2300 11.0 8.2 12.0 17.9 2008 21192 12.15 0.09 SBCK 314-Synez-01 12:24 moderate (<5 gal/sec) 1515 6.7 7.4 7.0 21.1 64 1652 12.31 2.29 SBCK 315-Frech-01 12:50 trickle (<1 quartisec) 19.8 2100 8.0 8.3 12.0 17.8 121 8664 12.67 0.05 SBCK 315-Suui-01 9.34 moderate (<5 gal/sec) 1100 8.0 7.6 0.0 16.5 288 2005 1271 1.85 12.71 1.8						10070			120.0	6.0								
BBCK 315-Bell-01 13:00 moderate (<5 gal/sec) 18:1 1990 11.4 8.0 120.0 16.2 121 12032 6.63 0.06 BBCK 315-Frem-01 13:15 trickle (<1 quartisec)	SBCK	403-Ormon-01	11:02	Stagnant water	24.0	14050	15.0	8.7				19.6	203			14136	5.46	0.03
BBCK 315-Frem-01 13:15 trickle (<1 quart/sec) 24.6 2300 11.0 8.2 120.0 17.9 2008 21192 12.15 0.09 BBCK 314-Synez-01 12:24 moderate (<6 gal/sec)									+	-								
BBCK 314-Synez-01 12:24 moderate (<5 gal/sec) 1515 6.7 7.4 7.0 21.1 64 1652 12:31 2:9 SBCK 315-Tecol-01 12:50 bitckle (<1 quart/sec)																		
SBCK 310-SLuis-01 9.34 moderate (<6 gal/set) 1100 8.0 7.6 0.0 16.5 288 2005 12.71 1.85	SBCK	314-Synez-01	12:24	moderate (<5 gal/sec)		1515	6.7	7.4		7.0		21.1				1652	12.31	2.29
					19.8				120.0	0.0								
24192 11.00 11.00 11.00 1400 2.2 22.2 300 24192 19.77 U.12	SBCK	315-Frank-01	11:50	moderate (<5 gal/sec)	20.6	1469	0.0	9.3		2.2		22.2	288 359			24192	19.77	0.12

СМС	StationID	Time of Field Measurements	Flow	AirTemp (Deg C)	Conductivity (uS)	Dissolved Oxygen (ppm)	рН	Tranparency (cm)	Turbidity (JTU)	Salinity (ppt)	WaterTemp (Deg C)	E. Coli (MPN/100 ml)	Fecal coliform (CFU/100 ml)	Enterrococcus (MPN/100ml)	Total coliform (MPN/100ml)	Nitrate-N (mg/L)	Ortho- phosphate-P (mg/L)
OCCK	801bc	10:25	trickle (<1 quart/sec)	23.2	3700	6.0	7.6				19.7	100			5650	0.00	1.75
OCCK OCCK	801 seacliff 801 bc2	11:47 10:05	trickle (<1 quart/sec)	26.0		6.4 6.2	7.9 7.9	122.0			20.8 17.9	100			10760 504	0.06	1.23
OCCK	901ale1	7:10	moderate (<5 gal/sec) trickle (<1 quart/sec)	24.5	6400	15.4	7.9	122.0	5.0		7.1	472			19863	0.10	0.14 0.58
OCCK	801tal1	11:54	high (>5 gals/sec)	19.1	0/R	7.0	8.5	90.2	8.0		17.4	100			100	0.14	0.17
осск	901aliso1	9:45	trickle (<1 quart/sec)	21.1	2940	9.5	7.9		1.0		19.9	200			520	0.30	0.03
OCCK	901pd2	13:55	Stagnant water		9300	12.5	8.5		6.0		19.5	173			24192	0.40	0.16
OCCK OCCK	801bg2 901sm2	14:30 8:20	moderate (<5 gal/sec) Stagnant water	24.2	1990 4100	7.0 6.5	8.0 7.6	122.0	0.0 7.0		19.8 17.7	100 85			6830 24192	0.40	0.21
OCCK	901sm2	14:20	moderate (<5 gal/sec)		10800	17.6	8.4		4.0		19.9	1210			111990	0.40	0.71
осск	801 wint1	11:54	moderate (<5 gal/sec)	22.9	1370	12.0	7.7	120.0	9.0		22.1	200			10460	0.60	0.08
OCCK	801bg1	13:08	moderate (<5 gal/sec)	27.2	1990	7.0	8.5	122.0			19.9	200			5290	0.70	0.07
OCCK	801tal2	12:15	Stagnant water	21.7	1630	10.0	8.7	10.6	3.0		25.7	31			24192	0.70	0.18
OCCK OCCK	901 sj1 901 aliso2	NR 10:30	high (>5 gals/sec) trickle (<1 quart/sec)	17.8	2200 2790	8.8 10.0	8.3		7.0 1.0		26.3 16.5	200 970			1990 96060	0.80	0.02
OCCK	801SUN1	11:48	moderate (<5 gal/sec)	20.8	1240	12.0	8.0	120.0	1.0		23.7	200			46110	1.00	0.12
осск	901salt3	12:00	high (>5 gals/sec)	18.1	4240	11.6	8.1		5.0		20.6	1310			12570	1.20	0.16
OCCK	801mc2	10:10	moderate (<5 gal/sec)	22.7	8690	7.7	7.6		2.0		16.8	510			95080	1.30	0.09
OCCK	901aliso3	13:00	Stagnant water	18.7	3930		8.7		2.0		22.4	630			104620	1.30	0.12
OCCK OCCK	801sd 901salt2	NR 11:30	moderate (<5 gal/sec) trickle (<1 quart/sec)	17.5 26.1	10210 4840	10.0 13.4	8.2 7.9		6.0		19.6 19.4	100 310			7760 1790	1.50	0.10
OCCK	901segd2	7:00	high (>5 gals/sec)	20.1	6800	7.5	7.9		6.0		16.4	63			24192	1.90	0.38
осск	801mc1	9:50	moderate (<5 gal/sec)	22.7	7870	7.5	7.2		4.0		17.0	100			3900	2.50	0.65
OCCK	801bc1	9:00	trickle (<1 quart/sec)	23.5			8.2				20.0	860			17930	3.00	0.06
OCCK	801 lt	9:00	moderate (<5 gal/sec)	22.7	5070	8.3	7.8		5.0		16.5	5470			27000	3.10	0.16
OCCK OCCK	901 segd1 405sf04	6:10 10:30	moderate (<5 gal/sec) Not recorded	15.5 22.5	4300 56000	8.0 6.0	7.5 8.0		4.0 8.0		15.9 24.3	20980 41			241920 722	5.00	1.22
OCCK	405sf05	9:30	high (>5 gals/sec)	21.5	48000	5.0	7.8		4.0		19.0	179			6294		
осск	405Sf06	8:45	moderate (<5 gal/sec)	19.5	54000	4.8	7.8		2.0		19.7				10		
осск	801sf01	12:10	Not recorded	27.0	61000	5.9	8.8		2.5		18.5	10			583		
OCCK	801sf02	11:40	Not recorded	27.0	61000	6.1	8.1		3.5		19.6	10			738		
OCCK SDBK	801sf03 90650-TCW-10	10:50 10:15	Not recorded NR	26.5 21.6	59000 5320	4.8 10.0	7.8		2.4		20.3	10 168			3160 24192	0.02	
SDBK	90640-RCW-20	11:17	NR NR	21.0	6840	10.0	8.0		25.2		20.1	155			24192	0.02	
SDBK	90700-SDRW-20	11:25	NR	19.0	2655	4.0	8.5		36.3		21.0	158			17329	0.05	
SDBK	90900-SWRW-10	12:55	NR	22.2	4345	3.5	7.6		3.7		17.8	187			17329	0.05	
SDBK	90822-CCW-20	10:55	NR	23.0	1495	6.0	7.8		2.8		19.8	323			6867	0.09	
SDBK SDBK	MEX-ASM-10 91111-TRW-30	11:40 10:15	NR NR	16.3 21.5	51500 2820	10.0	8.5 8.5		24.8 15.7		21.0 22.0	457 10			24192 41	0.18	
SDBK	90300-SLRRW-10	11:10	NR NR	23.0	2765	8.0	8.0		23.0		17.8	31			8664	0.19	
SDBK	MEX-ALS-10	12:00	NR	18.0	41700	6.0	9.0		17.6		20.0				386	0.23	
SDBK	MEX-AA-10	10:30	NR	19.0	8935	10.0	8.5		28.4		20.0	187			8664	0.39	
SDBK	MEX-AG-10	11:30	NR	17.8	5060	7.0	8.0		79.3		15.0	6131			24192	1.16	
SDBK	MEX-AEM-10 90300-SLRRVV-20	11:20 12:30	NR NR	19.5 24.0	3115 2300	4.5 8.0	8.0		21.8 13.8		19.0 21.0	235			24193	1.18	
SDBK	90300-SLRRW-30	NR	NR	26.5	2300	0.0	0.0		13.0		21.0						
SDBK	90640-RCW-10	10:12	NR	20.0	6700	8.0	7.0		18.5		20.0						
SDBK	90640-RCW-30	12:18	NR	22.3	6840	10.0	7.0		16.2		20.0						
SDBK	90650-TCW-20	11:10 12:00	NR NR	21.0 20.5	4695 1910	8.0 5.0	8.0 7.5		35.4		18.0 17.8						
SDBK	90650-TCW-30 90700-SDRW-10	10:11	NR NR	18.5	1910 58650	5.0	7.5 8.0		37.5 30.3		17.8						
SDBK	90700-SDRW-30	12:40	NR	24.3	2405	4.0	8.5		36.0		20.5						
SDBK	90700-SDRW-40	NR	Dry														
SDBK	90700-SDRW-50	10:32	NR	26.0	3440	9.0	7.7		2.3		23.0						
SDBK	90700-SDRW-60	NR 10:00	Dry NR	19.5	53700	E 0	8.0		0.5		19.4						
SDBK SDBK	90822-CCW-10 90822-CCW-30	11:35	NR NR	19.5 22.8	1940	5.0 2.0	7.8		2.1		19.4						
SDBK	90822-CCW-40	10:15	NR	18.5	4740	9.0	7.5		22.8		21.0						
SDBK	90822-CCW-50	11:10	NR	22.0	4635	6.0	7.5		12.5		20.0						
SDBK	90822-CCW-60	12:20	NR	23.0	8205	4.0	7.5		16.5		19.0						
SDBK	90831-PCW-10	10:30	NR	20.5	54750	6.0	8.0		3.1		19.0						
SDBK SDBK	90831-PCW-20 90831-PCW-30	11:00 11:45	Stagnant water Stagnant water	20.0													
SDBK	90900-SWRW-20	10:48	NR	26.1	960	8.5	8.0		18.5		17.1						
SDBK	90900-SWRW-30	12:08	NR	22.4	2950	4.2	7.6		1.5		17.1						
SDBK	91111-TRW-10	12:20	NR	17.0	55650	7.0	8.0		8.6		16.0						
SDBK	91111-TRW-20	11:20	NR	20.5	55000	4.0	7.5		0.5		20.0						